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Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Volume XLI

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1994

Surveys of Science Resources Series
National Science Foundation

Detailed Statistical Tables

NSF 93-323

Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Volume XLI

Project Officer: Ronald L. Meeks

Surveys of Science Resources Series
National Science Foundation **Detailed Statistical Tables**

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Contributors

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CONTENTS

General Notes 1

Section

A. Technical Notes 3

B. Federally Funded Research and Development Centers 15

C. Detailed Statistical Tables 19

NOTE: For trend comparison, use only the historical data for fiscal years 1972–93 contained in tables C-143 through C-163 in this Federal Funds, Volume XLI series. These tables incorporate changes in prior year data made by the agencies to reflect program reclassifications. Do not use data published earlier.

GENERAL NOTES

Data in the tables of this publication were derived from the Survey of Federal Funds for Research and Development, Volume XLI, for fiscal years 1991-93. They reflect research and development (R&D) funding levels as reported by 33 Federal agencies in March through December 1992. All agencies that conduct R&D programs were surveyed.

R&D totals in these tables are given in both outlays and obligations. The R&D obligation data are further categorized according to character of work (basic research, applied research, and development), performer, field of science or engineering (for research but not for development), and Federal R&D funding by State. Obligations for research performance at universities and colleges by fields of science or engineering are also shown, as are R&D plant data.

The amounts reported for each year are expressed in obligations or outlays incurred, or expected to be incurred, in that year, regardless of when the funds may have been authorized, appropriated, or received by an agency, and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant.

Data for 1991 are actual, representing completed transactions. Data for 1992 and 1993 are estimated because they do not represent final actions. The Survey of Federal Funds for Research and Development was conducted during the third quarter of fiscal year 1992. The amounts reported for 1992 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 1993 represent administration budget proposals that had not been acted on. Authorization, appropriation, deferral, and apportionment actions that were completed after these data were collected will be reflected in later surveys of this series.

Accuracy of the data depends in part on the judgment of the respondent. Since many agency R&D programs are not identified as budget-line items, agency officials must identify R&D and R&D plant activities within broader programs. Over the years, personnel of the participating agencies have developed increasing skill and consistency in meeting the survey requirements, and their interaction with the National Science Foundation staff has considerably increased the reliability of the data.

Inquiries relating to *Federal Funds for Research and Development, Fiscal Years 1991, 1992, and 1993, Volume XLI,* should be directed to Ronald Meeks, Science and Engineering Activities Program, Division of Science Resources Studies, National Science Foundation, Arlington, VA 22230. Telephone: (703) 306-1772.

SECTION A. TECHNICAL NOTES

Scope and Method

During the period March through December 1992, a total of 33 Federal agencies and their subdivisions—107 individual respondents—submitted data in response to the National Science Foundation's (NSF) annual Survey of Federal Funds for Research and Development, Volume XLI (Federal Funds Survey), which was distributed in February 1992. The agencies reported their data as obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for research and development (R&D) activities.

Definitions

The definitions are essentially unchanged from those used in past Federal Funds Surveys.

1. An **agency** is an organization of the Federal Government whose principal executive officer reports to the President. The Library of Congress is also included in the survey, even though its chief officer reports to Congress. **Subdivision** refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.

2. **Obligations** and **outlays** reported are consistent with figures shown for fiscal years 1991, 1992, and 1993 appearing in *The Budget of the United States Government, Fiscal Year 1993*. The R&D data in both agency submissions were based on the same definitions and are reconcilable.

   Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

   Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

   Obligations and outlays cover all transactions that occurred in fiscal year 1991, and those estimated for fiscal years 1992 and 1993. The data include all Federal funds available to an agency that the agency received or expects to receive, from direct appropriations, trust funds, and special account receipts, corporate income, or other sources, including funds appropriated to the President.

The amounts shown for each year reflect obligations or outlays for that year regardless of when the funds were originally authorized or received, and regardless of whether or not they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

In reporting its obligations or outlays, **each agency includes the amounts transferred to other agencies for support of research and development. The receiving agencies do not report funds transferred to them.** Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for R&D performed for an agency in foreign countries include all funds available to the agency for this purpose, including funds separately appropriated for special foreign currency programs.

Funds reported for research and development reflect full cost coverage. In addition to costs of specific R&D projects, the applicable overhead costs are also included. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

3. The **fiscal year** in the Federal Government accounting period begins October 1 of a given year and ends September 30 of the following year; thus, fiscal year 1991 began on October 1, 1990, and ended September 30, 1991.

4. **Research, development, and R&D plant** include all direct, incidental, or related costs resulting from, or necessary to, performance of research and development, and costs of R&D plant, defined as follows, regardless of whether the R&D is performed by a Federal agency (intramurally) or performed by private individuals and organizations under grant or contract (extramurally). R&D excludes routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

   a. **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

In **basic research** the objective of the sponsoring agency is to gain more complete knowledge or understanding of the fundamental aspects of phenomena and of observable facts, without specific applications toward processes or products in mind.

In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized need may be met.

b. **Development** is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

c. **Demonstration activities** that are part of research or development (i.e., that are intended to prove or to test whether a technology or method does, in fact, work) are included. Demonstrations intended primarily to make information available about new technologies or methods are not included.

d. **R&D plant** (R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable or movable equipment (e.g., spectrometers, microscopes) and office furniture and equipment. Also excluded are the costs of predesign studies (e.g., those undertaken before commitment to a specific facility). These excluded costs are reported under total conduct of research and development. Obligations for foreign R&D plant are limited to Federal funds for facilities located abroad and used in support of foreign research and development.

5. **Fields of science and engineering** in this survey consist of eight broad field categories, each consisting of a number of detailed fields. The broad fields are life sciences, psychology, physical sciences, environmental sciences, mathematics and computer sciences, engineering, social sciences, and other sciences, not elsewhere classified. The term not elsewhere classified (n.e.c.) is used for multidisciplinary projects within a broad field and for single-discipline projects for which a separate field has not been assigned. The following list presents the detailed fields grouped under each of the broad fields, together with illustrative disciplines of detailed fields.

The illustrative disciplines are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry, for example, might be reported as biological, agricultural, or medical, depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would fall under agricultural. In no case is the research reported under more than one field. No double counting is intended or allowed.

a. **Life sciences** consist of five detailed fields: biological (excluding environmental); environmental biology; agricultural; medical; and life sciences, n.e.c. Examples of the disciplines under each of these fields are as follows:

Biological (excluding environmental): anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.

Environmental biology: ecosystem sciences; evolutionary biology; limnology; physiological ecology; population biology; population and biotic community ecology; systematics; other environmental biology, n.e.c.

Agricultural: agronomy; animal sciences; food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; general agriculture; other agriculture, n.e.c.

Medical: internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pediatrics; preventive medicine; pathology; pharmacology; psychiatry; radiology; surgery; dentistry; pharmacy; veterinary medicine; other medical, n.e.c.

Life sciences, n.e.c.

b. **Psychology** deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology in this survey is divided into three categories: biological aspects; social aspects; and

psychological sciences, n.e.c. Examples of the disciplines under each of these fields are as follows:

Biological aspects: experimental psychology; animal behavior; clinical psychology; comparative psychology; ethology

Social aspects: social psychology; educational, personnel, and vocational psychology and testing; industrial and engineering psychology; development and personality

Psychological sciences, n.e.c.

c. **Physical sciences** are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy; chemistry; physics; and physical sciences, n.e.c. Examples of disciplines under each of these fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; X-ray, gamma-ray, and neutrino astronomy

Chemistry: inorganic; organo-metallic; organic; physical

Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma

Physical sciences, n.e.c.

d. **Environmental sciences** (terrestrial and extraterrestrial) are, with one exception, concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect human survival and welfare. The one exception is that obligations for studies pertaining to life in the sea or other bodies of water are reported as support of oceanography and not biology. Environmental sciences comprise the fields of atmospheric sciences; geological sciences; oceanography; and environmental sciences, n.e.c. Examples of disciplines under each of these fields are as follows:

Atmospheric sciences: aeronomy; solar; weather modification; extraterrestrial atmospheres; meteorology

Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry; isotopic geochemistry; organic geochemistry;

laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences

Oceanography: biological oceanography; chemical oceanography; physical oceanography; marine geophysics

Environmental sciences, n.e.c.

e. **Mathematics and computer sciences** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols and, in the case of computer sciences, with the application of such methods to automated information systems. Examples of disciplines under these fields are as follows:

Mathematics: algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology

Computer sciences: programming languages; computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis

Mathematics and computer sciences, n.e.c.

f. **Engineering** is concerned with studies directed toward developing engineering principles or toward making specific principles usable in engineering practice. Engineering in this survey is divided into eight fields: aeronautical; astronautical; chemical; civil; electrical; mechanical; metallurgy and materials; and engineering, n.e.c. Examples of disciplines under each of these fields are as follows:

Aeronautical: aerodynamics

Astronautical: aerospace; space technology

Chemical: petroleum; petroleum refining; process

Civil: architectural; hydraulic; hydrologic; marine; sanitary and environmental; structural; transportation

Electrical: communication; electronic; power

Mechanical: engineering mechanics

Metallurgy and materials: ceramic; mining; textile; welding

Engineering, n.e.c.: agricultural; bioengineering; biomedical; industrial and management; nuclear; ocean; systems

g. **Social sciences** are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences include anthropology; economics; political science; sociology; and social sciences, n.e.c. Examples of disciplines under the fields of social science are as follows:

Anthropology: archaeology; cultural and personality; social and ethnology; applied anthropology

Economics: econometrics and economic statistics; history of economic thought; international economics; industrial, labor, and agricultural economics; macroeconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development

Political science: area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration

Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions; social problems and social welfare; sociological theory

Social sciences, n.e.c.: linguistics; research in education; research in history; socioeconomic geography; research in law (e.g., attempts to assess impact on society of legal systems and practices)

h. **Other sciences, n.e.c.:** This category is used for multidisciplinary or interdisciplinary projects that cannot be classified within one of the broad fields of science already listed.

6. A **performer** is either an intramural group or organization carrying out an operational function, or an extramural organization or person receiving support or providing services under a contract or grant.

a. **Intramural performers** are the agencies of the Federal Government. Their work is carried on directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself, or represent funds that the agency transfers to another Federal agency for performance of work **as long as the ultimate performer is that agency or any Federal agency**. If the ultimate performer is not a Federal agency, the funds so transferred are reported by the transferring agency under the appropriate extramural performer category (universities and colleges, other nonprofit institutions, or industrial firms).

NOTE: Intramural activities cover not only the actual intramural R&D performance, but also the costs associated with the planning and administration of both intramural and extramural programs by Federal personnel. Intramural activities also include the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural R&D. For example, the purchase from an extramural source of an operational launch vehicle (i.e., one that has gone beyond the development or prototype stage) that is used for intramural performance of R&D is reported as a part of the cost of intramural R&D.

b. **Extramural performers** are organizations outside the Federal sector that perform R&D with Federal funds under contract, grant, or cooperative agreement. Only those costs associated with actual R&D performance are reported, but these would include costs of materials and supplies to carry out R&D activities. Note, however, that the costs of off-the-shelf supplies and equipment required to support intramural R&D and procured from extramural suppliers are considered as part of the costs of intramural performance and not as part of the costs of extramural performance.

Extramural performers are identified as follows:

i. **Industrial firms:** Organizations that may legally distribute net earnings to individuals or to other organizations.

ii. **Universities and colleges:** Institutions engaged primarily in providing resident and/or accredited instruction for at least a 2-year program above the secondary school level. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.

iii. **Other nonprofit institutions:** Private organizations other than educational institutions whose net earnings in no part inure to the benefit of a private stockholder or individual, and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.

iv. **Federally funded research and development centers (FFRDCs):** R&D-performing organizations that are exclusively or substantially financed by the Federal Government and are supported by the Federal Government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered either by an industrial firm, a university, or another nonprofit institution.

In general, all of the following criteria are met by an organization that is included in the FFRDC category: (1) its primary activities include one or more of the following: basic research, applied research, development, or management of research and development (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination); (2) it is a separate operational unit within the parent organization or is organized as a separately incorporated organization; (3) it performs actual research and development or R&D management either upon direct request of the Federal Government or under a broad charter from the Federal Government, but in either case under the direct monitorship of the Federal Government; (4) it receives its major financial support (70 percent or more) from the Federal Government, usually from one agency; (5) it has, or is expected to have, a long-term relationship with its sponsoring agency (about 5 years or more), as evidenced by specific obligations assumed by it and the agency; (6) most or all of its facilities are owned by, or are funded under contract with, the Federal Government; and (7) it has an average annual budget (operating and capital equipment) of at least $500,000.

v. **State and local governments:** State and local government agencies, excluding State or local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such State and local institutions excluded in this category are included under the Universities and colleges category in this report.) R&D

activities under the State and local category are performed either by the State or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to State and local governments are reported under this sector and no other.

vi. **Foreign performers:** Foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as the North Atlantic Treaty Organization (NATO), United Nations Educational, Scientific, and Cultural Organization (UNESCO), and World Health Organization (WHO)), performing R&D work abroad financed by the Federal Government. Excluded are U.S. agencies, organizations, or citizens performing R&D abroad for the Federal Government; the survey does not seek information on off-shore payments. An exception is made in the case of U.S. citizens performing R&D abroad under special foreign currency funds; these activities are included under foreign performers. Foreign scientists performing in the United States are excluded, however.

vii. **Private individuals:** Where an R&D grant or contract is awarded directly to a private individual, obligations incurred are placed under industrial firms.

7. **Federal obligations for research performed at universities and colleges, by detailed field of science:** Only six agencies participate in the portion of the survey covering the funding of research at universities and colleges, by detailed field of science. These six agencies represent approximately 96 percent of the Federal research obligations to universities and colleges. The six agencies are the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration (NASA); and NSF.

8. **Geographic distribution of 1991 R&D obligations**

a. Only the 10 largest R&D funding agencies participate in the portion of the survey covering the geographic distribution of obligations for research and development and R&D plant. These 10 agencies accounted for approximately 98 percent of total Federal R&D and R&D plant obligations in 1991. The respondents are the Departments of Agriculture, Commerce, Energy, Defense, Health and Human Services, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF.

b. Actual fiscal year 1991 data were requested in terms of the principal location (State or outlying area) where the work was performed by the prime contractor, grantee, or intramural organization. When this information was not available in their records, the respondents were asked to assign the obligations to the State, outlying area, or office abroad where the headquarters of the U.S. prime contractor, grantee, or intramural organization was located.

c. Obligations were reported for R&D as a combined amount.

d. Specifically omitted from the geographic portion of the survey were R&D obligations to foreign performers and obligations for R&D plant used in support of foreign performers. Foreign performer data, by country, are reported in a separate section of the Federal Funds Survey.

Changes in Reporting

While completing the survey forms each year, agency respondents make revisions to their estimates for the latest 2 years of the previous report, in this case fiscal years 1991 and 1992. Such revision is part of the budgetary cycle. From time to time survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When this occurs, NSF requires the agencies to provide revised prior year data to maintain consistency and comparability with the most recent concepts.

Limitations of the Data

Funds for research and development were reported on a 3-year basis comparable with the 1993 budget, upon which the data were based. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when funds were authorized or received by an agency and regardless of whether the funds were identified in the agency's budget specifically for research, development, and/or R&D plant. The respondents reconciled the data reported to the Federal Funds Survey with the amounts for R&D they reported to the Office of Management and Budget for the 1993 budget.

Some agencies are not able to report the full costs of research and development. For example, the headquarters costs of planning and administering R&D programs of the Department of Defense (DoD) (estimated at a fraction of 1 percent of the agency's R&D total) are not included because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also under reported to some extent because of the difficulty encountered by some agencies, particularly DoD and NASA, in identifying and reporting these data. DoD's

respondents report obligations for the R&D plant funded under the agency's construction appropriation, but they are able to identify only a small portion of the R&D plant support that is within R&D contracts funded from its appropriation for research, development, testing, and evaluation. Similarly, NASA respondents cannot separately identify the portions of industrial R&D contracts that apply to R&D plant; R&D plant data are subsumed in the R&D data covering industrial performance. NASA R&D plant data for other performing sectors are reported separately.

SECTION B. FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCs)

The following is a list of centers used in providing information for fiscal year 1992 for Tables VI, IX, XI, A, and B. Beginning in fiscal year 1993, three FFRDCs (Bettis, Hanford, and Knolls) were decertified and their funding data were reported with industrial firms on Tables VII, VIII, and IX for fiscal years 1993 and 1994.

The list is arranged by sponsoring agency and administering organization. Respondents reported under the FFRDC category those funds obligated to centers identified on this list.

DEPARTMENT OF DEFENSE

Office of the Secretary of Defense

Administered by other nonprofit institutions:[1]

- Institute for Defense Analyses (IDA), Alexandria, VA
- Logistics Management Institute (LMI), Bethesda, MD
- National Defense Research Institute (RAND Corp.[2]), Santa Monica, CA
- C3I Federal Contract Research Center (MITRE Corp.[3]), Bedford, MA, and McLean, VA

Defense Advanced Research Projects Agency

Administered by universities and colleges:[4]

- Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA

Department of the Navy

Administered by other nonprofit institutions:[1]

- Center for Naval Analyses, Alexandria, VA

Department of the Air Force

Administered by universities and colleges:[4]

- Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA

Administered by other nonprofit institutions:[1]

- Aerospace Corporation, El Segundo, CA

- Project Air Force (RAND Corp.[2]), Santa Monica, CA

Department of the Army

Administered by universities and colleges:[4]
- Institute for Advanced Technology (University of Texas), Austin, TX

Administered by other nonprofit institutions:[1]
- Arroyo Center (RAND Corp.[2]), Santa Monica, CA

DEPARTMENT OF ENERGY

Administered by industrial firms:
- Bettis Atomic Power Laboratory[5] (Westinghouse Electric Corp.), West Mifflin, PA
- Energy Technology Engineering Center (Rockwell International Corp.), Canoga Park, CA
- Hanford Engineering Development Laboratory[5] (Westinghouse Hanford Co.), Richland, WA
- Idaho National Engineering Laboratory (EG&G Idaho, Inc.; Babcock Wilcox Idaho, Inc.; Argonne National Laboratory, West; Westinghouse Electric Corp.), Idaho Falls, ID
- Knolls Atomic Power Laboratory[5] (General Electric Co.), Schenectady, NY
- Oak Ridge National Laboratory (Martin Marietta Energy Systems, Inc.), Oak Ridge, TN
- Sandia National Laboratory (AT&T Technologies, Inc.), Albuquerque, NM
- Savannah River Laboratory (Westinghouse Electric Corp.), Aiken, SC

Administered by universities and colleges:[4]
- Ames Laboratory (Iowa State University of Science and Technology), Ames, IA
- Argonne National Laboratory (University of Chicago), Argonne, IL
- Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, NY
- Continuous Electron Beam Accelerator Facility (Southeastern Universities Research Association), Newport News, VA
- Fermi National Accelerator Laboratory (Universities Research Association, Inc.), Batavia, IL
- Lawrence Berkeley Laboratory (University of California), Berkeley, CA
- Lawrence Livermore National Laboratory (University of California), Livermore, CA
- Los Alamos National Scientific Laboratory (University of California), Los Alamos, NM

- Oak Ridge Institute for Science and Education (Oak Ridge Associated Universities, Inc.), Oak Ridge, TN
- Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ
- Stanford Linear Accelerator Center (Leland Stanford, Jr., University), Stanford, CA

Administered by other nonprofit institutions:[1]

- Inhalation Toxicology Research Institute (Lovelace Biomedical and Environmental Research Institute), Albuquerque, NM
- National Renewable Energy Research Laboratory (Midwest Research Institute[6]), Golden, CO
- Pacific Northwest Laboratories (Battelle Memorial Institute), Richland, WA

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

Administered by industrial firms:

- NCI Frederick Cancer Research and Development Center (Program Resources, Inc.; Advanced BioScience Laboratories, Inc.; Harlan Sprague Dawley, Inc.; Data Management Services, Inc.), Frederick, MD

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Administered by universities and colleges:[4]

- Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA

NATIONAL SCIENCE FOUNDATION

Administered by universities and colleges:[4]

- National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR
- National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, CO
- National Optical Astronomy Observatories (Association of Universities for Research in Astronomy, Inc.[7]), Tucson, AZ
- National Radio Astronomy Observatory (Associated Universities, Inc.), Green Bank, WV

Administered by other nonprofit institutions:[1]

- Critical Technologies Institute (RAND Corp.[2]), Washington, DC

NUCLEAR REGULATORY COMMISSION

Administered by other nonprofit institutions:[1]

- Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

Administered by other nonprofit institutions:[1]

- Center for Advanced Aviation System Development (MITRE Corp.[3]), McLean, VA

Notes

1 That is, other than universities and colleges

2 The following portions of the RAND Corporation are FFRDCs: Project Air Force, National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), the Arroyo Center, and the Critical Technologies Institute. All other agency support to RAND is reported under Other nonprofit institutions.

3 Only the C3I Federal Contract Research Center and the Center for Advanced Aviation System Development parts of the MITRE Corporation are FFRDCs. All other agency support to MITRE is reported under Other nonprofit institutions.

4 Includes university consortia

5 For fiscal years through 1992, Bettis, Hanford, and Knolls were FFRDCs and obligations to them were reported as obligations to FFRDCs. In fiscal year 1993, obligations to them were reported as obligations to industrial firms. Bettis, Hanford, and Knolls were decertified in October/November 1992.

6 In September 1991 the name was changed from Solar Energy Research Institute.

7 Since February 1984 this center has included three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory, and the National Solar Observatory (formerly Sacramento Peak Observatory).

SECTION C. DETAILED STATISTICAL TABLES

Table **Page**

Research, Development, and R&D Plant

C-1 Summary of Federal funds for research and development and for R&D plant: fiscal years 1991, 1992, and 1993 35

C-2 Federal funds for research and development and for R&D plant, by agency: fiscal years 1991, 1992, and 1993 37

Research and Development—Agency, Character of Work, and Performer

C-3 Federal funds for total research and development, by agency: fiscal years 1991, 1992, and 1993 40

C-4 Federal obligations for total research and development, by agency and character of work: fiscal year 1991 43

C-5 Federal obligations for total research and development, by agency and character of work: fiscal year 1992 (estimates) 46

C-6 Federal obligations for total research and development, by agency and character of work: fiscal year 1993 (estimates) 49

C-7 Federal obligations for total research and development, by agency and performer: fiscal year 1991 52

C-8 Federal obligations for total research and development, by agency and performer: fiscal year 1992 (estimates) 55

C-9 Federal obligations for total research and development, by agency and performer: fiscal year 1993 (estimates) 58

C-10 Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1991 61

C-11 Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1992 (estimates) 62

C-12 Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1993 (estimates) 63

C-13 Federal obligations for research and development to federally funded research and development centers, by individual FFRDC and agency: fiscal year 1991 64

C-14 Federal obligations for R&D plant to federally funded research and development centers, by individual FFRDC and agency: fiscal year 1991 65

Total Research—Agency, Performer, and Field of Science and Engineering

C-15 Federal obligations for research, by agency and performer: fiscal year 1991 66

C-16 Federal obligations for research, by agency and performer: fiscal year 1992 (estimates) 69

C-17 Federal obligations for research, by agency and performer: fiscal year 1993 (estimates) 72

C-18 Federal obligations for research, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993 75

C-19 Federal obligations for research, by agency and field of science and engineering: fiscal year 1991 76

C-20 Federal obligations for research, by agency and field of science and engineering: fiscal year 1992 (estimates) 79

C-21 Federal obligations for research, by agency and field of science and engineering: fiscal year 1993 (estimates) 82

C-22 Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1991 85

C-23 Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates) . . . 87

C-24 Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates) . . . 89

C-25 Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991 91

C-26 Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates) . . . 92

C-27 Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates) . . . 93

C-28 Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1991 94

C-29 Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates) 95

C-30 Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates) 97

C-31 Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991 98

C-32 Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 100

C-33 Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates) 102

Basic Research—Agency, Performer, and Field of Science and Engineering

C-34 Federal obligations for basic research, by agency and performer: fiscal year 1991 104

C-35 Federal obligations for basic research, by agency and performer: fiscal year 1992 (estimates) 106

C-36 Federal obligations for basic research, by agency and performer: fiscal year 1993 (estimates) 108

C-37 Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993 110

C-38 Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1991 111

C-39 Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1992 (estimates) 112

C-40 Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1993 (estimates) 113

C-41 Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1991 114

C-42 Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates) . . . 115

C-43 Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates) . . . 116

C-44 Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991 117

C-45 Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates) . . . 118

C-46 Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates) . . . 119

C-47 Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1991 120

C-48 Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates) 121

C-49 Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates) 122

C-50 Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991 123

C-51 Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 124

C-52 Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates) 125

Applied Research—Agency, Performer, and Field of Science and Engineering

C-53 Federal obligations for applied research, by agency and performer: fiscal year 1991 126

C-54 Federal obligations for applied research, by agency and performer: fiscal year 1992 (estimates) 129

C-55 Federal obligations for applied research, by agency and performer: fiscal year 1993 (estimates) 132

C-56 Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993 135

C-57 Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1991 136

C-58 Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1992 (estimates) 139

C-59 Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1993 (estimates) 142

C-60 Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1991 145

C-61 Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates) . . . 147

C-62 Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates) . . . 149

C-63 Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991 151

C-64 Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 152

C-65 Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates) . . . 153

C-66 Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1991 154

C-67 Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates) 155

C-68 Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates) 156

C-69 Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991 157

C-70 Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates) . . . 159

C-71 Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates) . . . 161

Development—Agency and Performer

C-72 Federal obligations for development, by agency and performer: fiscal year 1991 163

C-73 Federal obligations for development, by agency and performer: fiscal year 1992 (estimates) 165

C-74 Federal obligations for development, by agency and performer: fiscal year 1993 (estimates) 167

R&D Plant—Agency and Performer

C-75 Federal funds for R&D plant, by agency: fiscal years 1991, 1992, and 1993 169

C-76 Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1991 170

C-77 Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1992 (estimates) 171

C-78 Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1993 (estimates) 172

Total Research Performed at Universities and Colleges—Agency and Field of Science and Engineering

C-79 Federal obligations for research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993 173

C-80 Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1991 174

C-81 Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1992 (estimates) 175

C-82 Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1993 (estimates) 176

C-83 Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1991 177

C-84 Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 178

C-85 Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates) 179

C-86 Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991 180

C-87 Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 181

C-88 Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates) 182

C-89 Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1991 183

C-90 Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates) 184

C-91 Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates) 185

C-92 Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991 186

C-93 Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates) . . . 187

C-94 Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates) . . . 188

Basic Research Performed at Universities and Colleges—Agency and Field of Science and Engineering

C-95 Federal obligations for basic research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993 189

C-96 Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1991 190

C-97 Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1992 (estimates) 191

C-98 Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1993 (estimates) 192

C-99 Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1991 193

C-100 Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 194

C-101 Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates) 195

C-102 Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991 196

C-103 Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 197

C-104 Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates) 198

C-105 Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1991 199

C-106 Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates) 200

C-107 Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates) 201

C-108 Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991 202

C-109 Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates) . . . 203

C-110 Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates) . . . 204

Applied Research Performed at Universities and Colleges—Agency and Field of Science and Engineering

C-111 Federal obligations for applied research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993 205

C-112 Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1991 206

C-113 Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1992 (estimates) 207

C-114 Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1993 (estimates) 208

C-115 Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1991 209

C-116 Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 210

C-117 Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates) 211

C-118 Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991 212

C-119 Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 213

C-120 Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates) 214

C-121 Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1991 215

C-122 Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates) 216

C-123 Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates) 217

C-124 Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991 218

C-125 Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates) 219

C-126 Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates) 220

Foreign Performers—Research and Development

C-127 Federal obligations for research and development to foreign performers, by region, country, and agency: fiscal year 1991 221

Foreign Performers—Basic Research

C-128 Federal obligations for basic research to foreign performers, by region, country, and agency: fiscal year 1991 222

Special Foreign Currency Program

C-129 Federal obligations for research and development to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1991, 1992, and 1993 223

C-130 Federal obligations for basic research to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1991, 1992, and 1993 224

C-131 Federal obligations for applied research to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1991, 1992, and 1993 225

C-132 Federal obligations for development to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1991, 1992, and 1993 226

Geographic Distribution—Research and Development and R&D Plant

C-133 Federal obligations for research and development and R&D plant, by State: fiscal year 1991 227

C-134 Federal obligations for research and development, by State and performer: fiscal year 1991 228

C-134A Percentage distribution of Federal obligations for research and development to each performer, by State: fiscal year 1991 229

C-134B Percentage distribution of Federal obligations for research and development to each State, by performer: fiscal year 1991 230

C-135 Federal obligations for research and development, by State and agency: fiscal year 1991 231

C-135A Percentage distribution of Federal obligations for research and development of each agency, by State: fiscal year 1991 232

C-135B Percentage distribution of Federal obligations for research and development of each State, by agency: fiscal year 1991 233

C-136 Federal obligations for research and development, by State, agency, and performer: fiscal year 1991 234

C-137 Federal obligations for R&D plant, by State and category of performer supported: fiscal year 1991 245

C-138 Federal obligations for R&D plant, by State and agency: fiscal year 1991 246

Federal Intramural Personnel Costs

C-139 Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993 247

C-140 Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993 250

C-141 Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993 252

C-142 Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993 255

Historical Data—Outlays

C-143A Federal outlays for research and development and for R&D plant, by agency: fiscal years 1972–82 257

C-143B Federal outlays for research and development and for R&D plant, by agency: fiscal years 1983–93 260

C-144A Federal outlays for research and development, by agency: fiscal years 1972–82 262

C-144B Federal outlays for research and development, by agency: fiscal years 1983–93 265

C-145A Federal outlays for R&D plant, by agency: fiscal years 1972–82 267

C-145B Federal outlays for R&D plant, by agency: fiscal years 1983–93 268

Historical Data—Obligations

C-146A Federal obligations for research and development and for R&D plant, by agency: fiscal years 1972–82 269

C-146B Federal obligations for research and development and for R&D plant, by agency: fiscal years 1983–93 273

C-147A Federal obligations for research and development, by agency: fiscal years 1972–82 276

C-147B Federal obligations for research and development, by agency: fiscal years 1983–93 280

C-148A Federal obligations for R&D plant, by agency: fiscal years 1972–82 283

C-148B Federal obligations for R&D plant, by agency: fiscal years 1983–93 285

C-149 Federal obligations for research, development, and R&D plant: fiscal years 1970–93 287

C-150A Federal obligations for research, by selected agency: fiscal years 1972–82 288

C-150B Federal obligations for research, by selected agency: fiscal years 1983–93 292

C-151A Federal obligations for basic research, by selected agency: fiscal years 1972–82 295

C-151B Federal obligations for basic research, by selected agency: fiscal years 1983–93 298

C-152A Federal obligations for applied research, by selected agency: fiscal years 1972–82 300

C-152B Federal obligations for applied research, by selected agency: fiscal years 1983–93 304

C-153A Federal obligations for development, by selected agency: fiscal years 1972–82 307

C-153B Federal obligations for development, by selected agency: fiscal years 1983–93 310

C-154A Federal obligations for research and development, by performer: fiscal years 1972–82 313

C-154B Federal obligations for research and development, by performer: fiscal years 1983–93 314

C-155A Federal obligations for research, by performer: fiscal years 1972–82 315

C-155B Federal obligations for research, by performer: fiscal years 1983–93 316

C-156A Federal obligations for basic research, by performer: fiscal years 1972–82 317

C-156B Federal obligations for basic research, by performer: fiscal years 1983–93 318

C-157A Federal obligations for applied research, by performer: fiscal years 1972–82 319

C-157B Federal obligations for applied research, by performer: fiscal years 1983–93 320

C-158A Federal obligations for development, by performer: fiscal years 1972–82 321

C-158B Federal obligations for development, by performer: fiscal years 1983–93 322

C-159A Federal obligations for total research, by detailed field of science and engineering: fiscal years 1972–82 323

C-159B Federal obligations for total research, by detailed field of science and engineering: fiscal years 1983–93 324

C-160A Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1972–82 325

C-160B Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1983–93 326

C-161A Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1972–82 327

C-161B Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1983–93 328

C-162A Federal obligations for research and development, by State: fiscal years 1972–82 329

C-162B Federal obligations for research and development, by State: fiscal years 1983–91 330

C-163A Federal obligations for R&D plant, by State: fiscal years 1972–82 331

C-163B Federal obligations for R&D plant, by State: fiscal years 1983–91 332

Table Notes

- Because of rounding, detail may not add to totals.
- Dashes or asterisks appearing in lieu of figures indicate that the amounts are less than $50,000 or less than 0.5 percent.
- The abbreviation "FFRDCs" appearing in statistical tables refers to federally funded research and development centers.
- In tables showing extramural performers, obligations of the Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.
- Defense agencies within the Department of Defense include the Defense Advanced Research Projects Agency, the Defense Communications Agency, the Defense Logistics Agency, the Defense Mapping Agency, the Defense Nuclear Agency, the Joint Chiefs of Staff, the Special Operations Command, the Strategic Defense Initiative Organization, the Uniformed Services University of the Health Sciences, and the Washington Headquarters Service.

Table C-1. Summary of Federal funds for research and development and for R&D plant: fiscal years 1991, 1992, and 1993

[In millions of dollars and percentages]

Item	1991	Estimates			
		1992	% Change 1991-92	1993	% Change 1992-93
Total outlays for research and development and for R&D plant	64,292.3	70,843.0	10.2%	74,052.9	4.5%
Research and development	61,130.4	66,314.4	8.5	69,107.5	4.2
R&D plant	3,162.0	4,528.6	43.2	4,945.4	9.2
Total obligations for research and development and for R&D plant	64,990.5	75,585.6	16.3	75,045.2	-.7
Research and development, total	61,295.2	70,367.8	14.8	69,754.4	-.9
By performers:					
Intramural 1/	15,238.1	16,634.6	9.2	16,643.1	.1
Industrial firms	26,420.6	32,155.6	21.7	31,202.7	-3.0
FFRDCs administered by industrial firms	2,068.3	2,177.5	5.3	2,142.3	-1.6
Universities and colleges	10,168.5	11,297.7	11.1	11,763.5	4.1
FFRDCs administered by universities and colleges	3,603.8	3,831.4	6.3	3,702.8	-3.4
Other nonprofit institutions	2,637.4	2,944.2	11.6	2,956.7	.4
FFRDCs administered by nonprofit institutions	679.4	712.9	4.9	721.0	1.1
State and local governments	215.1	274.9	27.8	286.4	4.2
Foreign	263.9	339.1	28.5	336.0	-.9
Research, total	23,968.4	26,195.4	9.3	27,899.3	6.5
By performers:					
Intramural 1/	6,539.3	7,156.5	9.4	7,840.7	9.6
Industrial firms	3,406.5	3,802.8	11.6	4,058.4	6.7
FFRDCs administered by industrial firms	624.6	689.2	10.3	678.1	-1.6
Universities and colleges	8,867.5	9,624.4	8.5	10,252.5	6.5
FFRDCs administered by universities and colleges	2,160.9	2,318.5	7.3	2 384.5	2.8
Other nonprofit institutions	1,925.9	2,124.7	10.3	2,204.0	3.7
FFRDCs administered by nonprofit institutions	170.9	173.9	1.7	179.9	3.4
State and local governments	129.3	162.6	25.8	153.8	-5.4
Foreign	143.4	142.8	-.4	147.5	3.3
By fields of science:					
Life sciences	9,622.0	10,588.8	10.0	11,338.2	7.1
Psychology	482.4	521.3	8.1	570.6	9.5
Physical sciences	4,235.3	4,533.7	7.0	4,789.9	5.7
Environmental sciences	2,149.8	2,359.8	9.8	2,503.2	6.1
Mathematics and computer sciences	903.7	1,153.9	27.7	1,212.3	5.1
Engineering	4,944.5	5,487.7	11.0	5,935.3	8.2
Social sciences	727.3	790.2	8.6	717.7	-9.2
Other sciences, n.e.c.	903.4	760.2	-15.9	832.1	9.5
Basic research, total	12,170.8	13,254.1	8.9	14,184.3	7.0
By performers:					
Intramural 1/	2,446.5	2,705.3	10.6	2,892.9	6.9
Industrial firms	949.9	1,040.6	9.5	1,103.6	6.1
FFRDCs administered by industrial firms	209.1	221.4	5.9	227.5	2.7
Universities and colleges	6,064.5	6,602.7	8.9	7,069.6	7.1
FFRDCs administered by universities and colleges	1,306.2	1,387.1	6.2	1,468.5	5.9
Other nonprofit institutions	1,015.5	1,120.0	10.3	1,228.3	9.7
FFRDCs administered by nonprofit institutions	80.8	69.7	-13.8	79.1	13.5
State and local governments	49.1	55.7	13.3	59.4	6.6
Foreign	49.1	51.6	5.1	55.5	7.6
By fields of science:					
Life sciences	5,433.6	6,145.5	13.1	6,621.6	7.7
Psychology	225.5	248.8	10.3	264.9	6.5
Physical sciences	2,881.5	3,082.8	6.3	3,248.8	6.1
Environmental sciences	1,263.5	1,386.7	9.7	1,510.3	8.9
Mathematics and computer sciences	426.1	513.3	20.5	562.9	9.7
Engineering	1,233.7	1,396.9	13.2	1,430.8	2.4
Social sciences	161.3	161.4	.1	172.0	6.5
Other sciences, n.e.c.	545.6	338.7	-37.9	373.1	10.2

See explanatory information, if any, and SOURCE at end of table.

Table C-1. Summary of Federal funds for research and development and for R&D plant: fiscal years 1991, 1992, and 1993

[In millions of dollars and percentages]

Item	1991	Estimates			
		1992	% Change 1991-92	1993	% Change 1992-93
Applied research, total	11,797.6	12,941.4	9.7%	13,715.0	6.0%
By performers:					
Intramural 1/	4,092.8	4,451.2	8.8	4,947.8	11.2
Industrial firms	2,456.6	2,762.2	12.4	2,954.8	7.0
FFRDCs administered by industrial firms	415.5	467.8	12.6	450.6	-3.7
Universities and colleges	2,803.0	3,021.7	7.8	3,182.9	5.3
FFRDCs administered by universities and colleges	854.7	931.4	9.0	916.0	-1.7
Other nonprofit institutions	910.4	1,004.6	10.3	975.7	-2.9
FFRDCs administered by nonprofit institutions	90.1	104.2	15.7	100.8	-3.3
State and local governments	80.2	106.9	33.4	94.4	-11.7
Foreign	94.3	91.2	-3.2	92.0	.8
By fields of science:					
Life sciences	4,188.4	4,443.4	6.1	4,716.6	6.2
Psychology	256.9	272.5	6.1	305.7	12.2
Physical sciences	1,353.9	1,470.9	8.6	1,541.1	4.8
Environmental sciences	886.3	973.0	9.8	993.0	2.0
Mathematics and computer sciences	477.6	640.6	34.1	649.4	1.4
Engineering	3,710.8	4,090.8	10.2	4,504.5	10.1
Social sciences	566.0	628.8	11.1	545.7	-13.2
Other sciences, n.e.c.	357.8	421.5	17.8	459.0	8.9
Development, total	37,326.8	44,172.4	18.3	41,855.1	-5.2
By performers:					
Intramural 1/	8,698.8	9,478.1	9.0	8,802.4	-7.1
Industrial firms	23,014.1	28,352.8	23.2	27,144.3	-4.3
FFRDCs administered by industrial firms	1,443.7	1,488.2	3.1	1,464.2	-1.6
Universities and colleges	1,301.0	1,673.3	28.6	1,511.0	-9.7
FFRDCs administered by universities and colleges	1,442.9	1,512.9	4.9	1,318.2	-12.9
Other nonprofit institutions	711.5	819.5	15.2	752.7	-8.1
FFRDCs administered by nonprofit institutions	508.5	539.0	6.0	541.1	.4
State and local governments	85.8	112.3	30.9	132.6	18.1
Foreign	120.5	196.3	62.8	188.6	-3.9
R&D plant, total	3,695.4	5,217.7	41.2	5,290.7	1.4
By performers supported:					
Intramural	461.1	777.5	68.6	457.7	-41.1
Industrial firms	1,889.2	2,803.5	48.4	3,052.8	8.9
FFRDCs administered by industrial firms	279.6	270.9	-3.1	235.5	-13.0
Universities and colleges	253.3	270.6	6.8	225.8	-16.6
FFRDCs administered by universities and colleges	624.6	668.8	7.1	696.8	4.2
Other nonprofit institutions	154.6	394.9	155.4	557.4	41.1
FFRDCs administered by nonprofit institutions	19.7	27.2	38.5	28.3	3.8
State and local governments	.8	.4	-27.5	.4	.0
Foreign	12.8	3.9	-69.8	36.1	834.0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-2. Federal funds for research and development and for R&D plant, by agency: fiscal years 1991, 1992, and 1993

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1991	Estimates		1991	Estimates	
		1992	1993		1992	1993
Total, all agencies	64,990.5	75,585.6	75,045.2	64,292.3	70,843.0	74,052.9
Departments:						
Department of Agriculture, total	1,381.3	1,511.7	1,440.9	1,269.4	1,393.4	1,430.9
Agricultural Cooperative Svc	2.8	3.5	3.1	2.8	3.5	3.1
Agricultural Marketing Svc 1/	4.2	4.7	4.3	3.7	4.7	4.3
Agricultural Research Svc	655.7	717.0	753.1	622.9	679.7	721.8
Animal & Plant Health Inspection Svc	15.7	19.2	16.7	15.7	19.2	16.7
Cooperative State Research Svc	438.3	499.9	404.3	395.6	428.1	433.8
Economic Research Svc	54.4	58.7	60.4	53.0	57.7	58.3
Federal Grain Inspection Svc	.7	1.2	1.3	.7	1.2	1.3
Forest Svc	193.1	191.7	182.3	159.8	182.4	174.1
Human Nutrition Information Svc	9.9	10.8	10.8	8.9	9.9	11.5
Nat'l Agricultural Statistics Svc	3.2	3.4	3.5	3.2	3.4	3.4
Office of International Cooperation and Development	3.1	1.5	1.3	3.1	3.6	2.6
Department of Commerce, total	505.4	645.2	648.1	500.7	581.5	619.9
Bureau of the Census	6.6	6.1	5.9	6.6	6.1	5.9
Economic Development Admin	1.4	.5	-	1.0	1.2	.6
Nat'l Institute of Standards & Tech	148.4	235.8	253.7	144.1	190.3	221.1
Nat'l Oceanic & Atmospheric Admin	345.3	398.9	382.2	345.3	380.0	386.1
Nat'l Telecommunications & Info Admin	3.6	4.0	6.3	3.6	4.0	6.3
Office of the Secretary	-	-	-	.0	.0	-
Department of Defense, total	33,387.9	40,249.8	38,619.1	34,049.4	37,538.1	39,330.0
Department of the Army	6,172.5	6,660.2	5,758.3	5,724.5	6,689.2	6,172.3
Military functions	6,130.0	6,604.0	5,686.0	5,682.0	6,633.0	6,100.0
Civil functions (Corps of Engineers)	42.5	56.2	72.3	42.5	56.2	72.3
Department of the Navy	7,860.0	9,335.0	8,777.0	7,902.0	8,674.0	8,908.0
Department of the Air Force	11,917.3	15,230.8	14,903.8	13,645.9	14,365.0	15,498.2
Defense agencies	7,200.9	8,814.9	8,565.3	6,685.3	7,748.4	8,340.2
Test & Evaluation, Deputy Under Secretary Defense	223.7	196.0	287.3	69.4	51.1	72.0
Director, Operational Test & Evaluation	13.6	12.8	13.0	22.3	10.3	10.8
Health Affairs, Assistant Secretary of Defense for	-	-	314.4	-	-	328.5
Department of Education	175.2	201.7	212.5	117.2	133.7	132.9
Department of Energy	7,203.2	8,354.5	8,396.1	6,827.1	7,897.9	7,835.3
Department of Health and Human Svcs, total	9,842.3	10,985.9	11,243.1	9,822.1	10,694.8	11,238.4
Admin on Aging 2/	20.6	20.6	19.6	20.6	20.6	19.6
Admin for Children and Families 2/	129.0	155.3	142.2	110.2	129.7	140.4
Agency for Health Care Policy & Research 3/	101.1	106.3	73.9	11.9	27.0	27.8
Alcohol, Drug Abuse, & Mental Health Admin	1,460.6	1,583.2	1,680.4	1,460.6	1,583.2	1,680.4
Centers for Disease Control	113.4	117.4	118.3	113.4	117.4	118.3
Food & Drug Admin	143.5	160.2	170.2	143.5	160.2	170.2
Health Care Financing Admin	69.1	78.4	36.0	21.7	48.4	57.1
Health Resources and Svcs Admin	11.0	12.0	12.1	11.0	12.0	12.1
Nat'l Institutes of Health	7,763.4	8,707.7	8,960.6	7,890.4	8,538.9	8,972.6
Office of Assistant Secretary for Health	10.0	8.9	4.4	18.2	21.5	14.5
Office of the Secretary	8.8	5.0	5.2	8.8	5.0	5.2
Social Security Admin	11.9	30.8	20.2	11.9	30.8	20.2
Department of Housing and Urban Development	27.8	28.5	36.6	18.1	24.0	29.9

See explanatory information, if any, and SOURCE at end of table.

Table C-2. Federal funds for research and development and for R&D plant, by agency: fiscal years 1991, 1992, and 1993

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1991	Estimates		1991	Estimates	
		1992	1993		1992	1993
Department of the Interior, total	615.1	631.8	549.2	556.2	651.5	556.0
Bureau of Land Management	8.8	9.3	16.2	8.8	9.3	16.2
Bureau of Mines	108.2	112.0	75.3	97.7	117.0	88.9
Bureau of Reclamation	8.7	13.2	9.3	8.7	12.2	9.3
Geological Survey	359.8	366.8	329.2	319.5	391.4	330.5
Minerals Management Svc	2.9	4.7	4.7	2.7	4.0	4.6
Nat'l Park Svc	27.5	29.0	29.5	27.5	29.0	29.5
Office of the Secretary	.6	.9	2.8	.6	.9	2.8
Office of Surface Mining Reclamation and Enforcement	1.0	.3	.4	1.0	.3	.4
United States Fish and Wildlife Svc	97.6	95.7	81.8	89.7	87.4	73.8
Department of Justice, total	48.9	50.4	55.4	40.4	41.5	56.0
Bureau of Prisons 4/	5.2	5.3	5.6	5.7	6.2	6.2
Drug Enforcement Admin	2.7	1.8	1.8	2.8	1.9	1.8
Federal Bureau of Investigation	10.8	11.4	24.3	10.8	11.4	24.3
Immigration and Naturalization Svc	.4	.4	.4	.4	.4	.4
Office of Justice Programs	29.8	31.4	23.3	20.7	21.6	23.3
Department of Labor, total	44.0	39.0	44.1	45.6	40.8	50.3
Bureau of Labor Statistics	7.5	7.6	8.4	7.5	7.6	8.4
Employment and Training Admin	22.1	16.6	16.8	23.7	18.4	23.0
Occupational Safety and Health Admin	2.6	3.2	3.2	2.6	3.2	3.2
Office of the Secretary	8.7	8.6	12.8	8.7	8.6	12.8
Pension Benefit Guaranty Corporation	.5	.6	.5	.5	.6	.5
Pension & Welfare Benefits Admin	2.5	2.5	2.4	2.5	2.5	2.4
Department of State	5.9	5.3	5.3	5.9	5.3	5.3
Department of Transportation, total	398.3	489.6	517.3	361.0	427.2	473.3
Coast Guard	25.9	29.2	29.9	14.9	25.8	31.5
Federal Aviation Admin	236.4	275.6	277.1	216.0	267.2	277.4
Federal Highway Admin	86.9	117.9	134.6	86.1	72.1	100.7
Federal Railroad Admin	17.6	30.3	25.8	14.3	29.0	25.2
Maritime Admin	1.7	1.8	1.7	1.5	1.7	1.7
Nat'l Highway Traffic Safety Admin	21.4	25.8	35.8	19.2	23.2	26.7
Office of the Secretary	4.3	5.1	4.6	4.7	3.4	4.5
Research and Special Programs Admin	2.4	2.5	2.7	2.2	2.4	2.4
Federal Transit Admin 5/	1.7	1.5	5.1	2.1	2.4	3.2
Department of the Treasury, total	31.0	31.4	34.7	30.4	30.8	34.2
Bureau of Engraving and Printing	3.5	4.2	1.3	3.5	4.2	1.3
Financial Crimes Enforcement Network	2.3	2.0	2.1	1.8	2.0	2.1
Internal Revenue Svc	17.9	17.9	17.9	17.3	17.3	17.3
Office of Protective Research	.4	.6	.6	.4	.6	.6
Office of Thrift Supervision 6/	3.0	3.0	3.2	3.0	3.0	3.2
United States Customs Svc	3.8	3.2	9.0	3.8	3.2	9.0
United States Mint	.1	.6	.6	.5	.5	.6
Department of Veterans Affairs	220.0	247.7	243.9	221.6	229.7	243.3

See explanatory information, if any, and SOURCE at end of table.

Table C-2. Federal funds for research and development and for R&D plant, by agency: fiscal years 1991, 1992, and 1993

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1991	Estimates		1991	Estimates	
		1992	1993		1992	1993
Other agencies:						
Advisory Commission on Intergovernmental Relations	1.7	1.5	1.5	1.2	1.3	1.4
Agency for International Development	392.8	375.8	389.2	357.8	344.5	439.2
Appalachian Regional Commission	.7	1.9	.9	.7	1.9	.9
Consumer Product Safety Commission	1.3	1.2	1.5	1.3	1.2	1.5
Environmental Protection Agency	432.6	491.5	519.7	400.1	453.9	495.2
Federal Communications Commission	1.4	1.6	1.6	1.4	1.6	1.6
Federal Trade Commission	1.0	.5	.5	1.0	.5	.5
General Services Admin	22.6	6.5	-	3.6	14.0	20.5
International Trade Commission	9.9	11.7	12.5	9.9	11.7	12.5
Library of Congress	9.0	10.6	10.5	8.6	10.4	10.3
Nat'l Aeronautics and Space Admin	8,003.8	8,849.2	9,352.1	7,675.0	8,050.0	8,518.6
Nat'l Archives & Records Admin	.7	.3	.3	.7	.3	.3
Nat'l Science Foundation	1,944.8	2,037.0	2,398.3	1,687.1	1,948.3	2,210.6
Nuclear Regulatory Commission	108.8	118.9	127.7	107.5	116.4	125.5
Smithsonian Institution	99.5	109.2	124.6	98.5	100.7	120.8
Tennessee Valley Authority	73.1	92.7	56.1	72.3	93.4	56.1
United States Arms Control and Disarmament Agency	.4	2.1	1.0	.4	2.1	1.0
United States Information Agency	.1	1.0	.6	.2	.7	.6

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ Name changed from Urban Mass Transit Administration on December 18, 1991

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

NOTE: Because of rounding, detail may not add to totals.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-3. Federal funds for total research and development, by agency: fiscal years 1991, 1992, and 1993

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1991	Estimates		1991	Estimates	
		1992	1993		1992	1993
Total, all agencies	61,295.2	70,367.8	69,754.4	61,130.4	68,314.4	69,107.5
Departments:						
Department of Agriculture, total	1,236.6	1,336.5	1,337.2	1,189.4	1,290.8	1,295.9
Agricultural Cooperative Svc	2.8	3.5	3.1	2.8	3.5	3.1
Agricultural Marketing Svc 1/	4.2	4.7	4.3	3.7	4.7	4.3
Agricultural Research Svc	591.0	628.4	654.3	573.5	611.4	633.7
Animal & Plant Health Inspection Svc	15.7	16.7	16.7	15.7	16.7	16.7
Cooperative State Research Svc	376.8	419.4	404.3	380.1	403.6	391.7
Economic Research Svc	54.4	58.7	60.4	53.0	57.7	58.3
Federal Grain Inspection Svc	.7	1.2	1.3	.7	1.2	1.3
Forest Svc	174.7	188.1	177.3	144.7	175.2	169.4
Human Nutrition Information Svc	9.9	10.8	10.8	8.9	9.9	11.5
Nat'l Agricultural Statistics Svc	3.2	3.4	3.5	3.2	3.4	3.4
Office of International Cooperation and Development	3.1	1.5	1.3	3.1	3.6	2.6
Department of Commerce, total	489.6	620.7	622.6	485.1	560.8	598.1
Bureau of the Census	6.6	6.1	5.9	6.6	6.1	5.9
Economic Development Admin	1.4	.5	-	1.0	1.2	.6
Nat'l Institute of Standards & Tech	140.0	220.9	231.1	135.9	174.0	203.6
Nat'l Oceanic & Atmospheric Admin	338.0	389.3	379.4	338.0	375.6	381.8
Nat'l Telecommunications & Info Admin	3.6	4.0	6.3	3.6	4.0	6.3
Office of the Secretary	-	-	-	.0	.0	-
Department of Defense, total	32,134.8	38,309.2	36,155.2	33,013.5	35,768.9	37,137.1
Department of the Army	6,081.5	6,631.2	5,737.3	5,659.5	6,658.2	6,149.3
Military functions	6,039.0	6,575.0	5,665.0	5,617.0	6,602.0	6,077.0
Civil functions (Corps of Engineers)	42.5	56.2	72.3	42.5	56.2	72.3
Department of the Navy	7,806.0	9,199.0	8,754.0	7,815.0	8,584.0	8,843.0
Department of the Air Force	10,937.5	13,588.5	12,652.4	12,825.6	12,873.0	13,536.2
Defense agencies	7,072.5	8,681.7	8,396.7	6,621.8	7,612.3	8,195.3
Test & Evaluation, Deputy Under Secretary Defense	223.7	196.0	287.3	69.4	51.1	72.0
Director, Operational Test & Evaluation	13.6	12.8	13.0	22.3	10.3	10.8
Health Affairs, Assistant Secretary of Defense for	-	-	314.4	-	-	328.5
Department of Education	171.0	199.6	210.4	114.5	129.5	128.3
Department of Energy	5,983.1	6,765.8	6,731.4	5,727.2	6,359.1	6,386.5
Department of Health and Human Svcs, total	9,756.0	10,677.5	11,142.7	9,627.3	10,555.2	11,125.9
Admin on Aging 2/	20.6	20.6	19.6	20.6	20.6	19.6
Admin for Children and Families 2/	129.0	155.3	142.2	110.2	129.7	140.4
Agency for Health Care Policy & Research 3/	101.1	106.3	73.9	11.9	27.0	27.8
Alcohol, Drug Abuse, & Mental Health Admin	1,460.6	1,583.2	1,680.4	1,460.6	1,583.2	1,680.4
Centers for Disease Control	113.4	117.4	118.3	113.4	117.4	118.3
Food & Drug Admin	125.0	137.7	143.3	125.0	137.7	143.3
Health Care Financing Admin	69.1	78.4	36.0	21.7	48.4	57.1
Health Resources and Svcs Admin	11.0	11.2	11.1	11.0	11.2	11.1
Nat'l Institutes of Health	7,695.5	8,422.7	8,888.1	7,714.0	8,422.7	8,888.1
Office of Assistant Secretary for Health	10.0	8.9	4.4	18.2	21.5	14.5
Office of the Secretary	8.8	5.0	5.2	8.8	5.0	5.2
Social Security Admin	11.9	30.7	20.2	11.9	30.7	20.2
Department of Housing and Urban Development	27.8	28.5	36.6	18.1	24.0	29.9

See explanatory information, if any, and SOURCE at end of table.

Table C-3. Federal funds for total research and development, by agency: fiscal years 1991, 1992, and 1993

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1991	Estimates		1991	Estimates	
		1992	1993		1992	1993
Department of the Interior, total	592.9	612.8	541.4	535.6	632.3	548.3
Bureau of Land Management	8.8	9.3	16.2	8.8	9.3	16.2
Bureau of Mines	106.1	111.4	74.7	96.3	115.9	88.3
Bureau of Reclamation	8.7	13.2	9.3	8.7	12.2	9.3
Geological Survey	356.6	362.4	325.5	316.6	386.8	326.7
Minerals Management Svc	2.7	3.7	3.7	2.5	3.3	3.6
Nat'l Park Svc	27.5	29.0	29.5	27.5	29.0	29.5
Office of the Secretary	.6	.9	2.8	.6	.9	2.8
Office of Surface Mining Reclamation and Enforcement	1.0	.3	.4	1.0	.3	.4
United States Fish and Wildlife Svc	81.0	82.6	79.3	73.6	74.7	71.4
Department of Justice, total	48.9	50.4	55.4	40.4	41.5	56.0
Bureau of Prisons 4/	5.2	5.3	5.6	5.7	6.2	6.2
Drug Enforcement Admin	2.7	1.8	1.8	2.8	1.9	1.8
Federal Bureau of Investigation	10.8	11.4	24.3	10.8	11.4	24.3
Immigration and Naturalization Svc	.4	.4	.4	.4	.4	.4
Office of Justice Programs	29.8	31.4	23.3	20.7	21.6	23.3
Department of Labor, total	44.0	39.0	44.1	45.6	40.8	50.3
Bureau of Labor Statistics	7.5	7.6	8.4	7.5	7.6	8.4
Employment and Training Admin	22.1	16.6	16.8	23.7	18.4	23.0
Occupational Safety and Health Admin	2.6	3.2	3.2	2.6	3.2	3.2
Office of the Secretary	8.7	8.6	12.8	8.7	8.6	12.8
Pension Benefit Guaranty Corporation	.5	.6	.5	.5	.6	.5
Pension & Welfare Benefits Admin	2.5	2.5	2.4	2.5	2.5	2.4
Department of State	5.9	5.3	5.3	5.9	5.3	5.3
Department of Transportation, total	379.9	464.8	493.2	342.6	408.9	454.9
Coast Guard	25.5	28.8	29.5	14.5	25.4	31.1
Federal Aviation Admin	220.1	252.3	253.7	199.6	250.3	259.5
Federal Highway Admin	86.9	117.9	134.6	86.1	72.1	100.7
Federal Railroad Admin	15.9	29.2	25.5	12.8	28.0	25.0
Maritime Admin	1.7	1.8	1.7	1.5	1.7	1.7
Nat'l Highway Traffic Safety Admin	21.4	25.8	35.8	19.2	23.2	26.7
Office of the Secretary	4.3	5.1	4.6	4.7	3.4	4.5
Research and Special Programs Admin	2.4	2.5	2.7	2.2	2.4	2.4
Federal Transit Admin 5/	1.7	1.5	5.1	2.1	2.4	3.2
Department of the Treasury, total	30.8	31.3	34.6	30.3	30.7	34.0
Bureau of Engraving and Printing	3.5	4.2	1.3	3.5	4.2	1.3
Financial Crimes Enforcement Network	2.3	2.0	2.1	1.8	2.0	2.1
Internal Revenue Svc	17.9	17.9	17.9	17.3	17.3	17.3
Office of Protective Research	.4	.5	.6	.4	.5	.6
Office of Thrift Supervision 6/	3.0	3.0	3.2	3.0	3.0	3.2
United States Customs Svc	3.7	3.1	8.9	3.7	3.1	8.9
United States Mint	.1	.6	.6	.5	.5	.6
Department of Veterans Affairs	216.6	236.0	242.0	213.4	224.2	237.8

See explanatory information, if any, and SOURCE at end of table.

Table C-3. Federal funds for total research and development, by agency: fiscal years 1991, 1992, and 1993

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1991	Estimates		1991	Estimates	
		1992	1993		1992	1993
Other agencies:						
Advisory Commission on Intergovernmental Relations	1.7	1.5	1.5	1.2	1.3	1.4
Agency for International Development	377.7	361.3	374.3	344.0	331.3	422.3
Appalachian Regional Commission	.7	1.9	.9	.7	1.9	.9
Consumer Product Safety Commission	1.3	1.2	1.5	1.3	1.2	1.5
Environmental Protection Agency	432.6	491.5	519.7	400.1	453.9	495.2
Federal Communications Commission	1.4	1.6	1.6	1.4	1.6	1.6
Federal Trade Commission	1.0	.5	.5	1.0	.5	.5
International Trade Commission	9.9	11.7	12.5	9.9	11.7	12.5
Library of Congress	9.0	10.6	10.5	8.6	10.4	10.3
Nat'l Aeronautics and Space Admin	7,280.2	7,860.3	8,628.7	7,071.2	7,271.8	7,710.2
Nat'l Archives & Records Admin	.7	.3	.3	.7	.3	.3
Nat'l Science Foundation	1,785.2	1,936.5	2,246.9	1,630.6	1,850.1	2,065.2
Nuclear Regulatory Commission	108.8	118.9	127.7	107.5	116.4	125.5
Smithsonian Institution	98.0	100.0	118.0	94.0	97.0	114.0
Tennessee Valley Authority	68.3	89.5	56.0	68.6	90.2	56.0
United States Arms Control and Disarmament Agency	.4	2.1	1.0	.4	2.1	1.0
United States Information Agency	.1	1.0	.6	.2	.7	.6

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ Name changed from Urban Mass Transit Administration on December 18, 1991

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

NOTE: Because of rounding, detail may not add to totals.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-4. Federal obligations for total research and development, by agency and character of work: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Total, all agencies	61,295,152	12,170,794	11,797,583	37,326,775
Departments:				
Department of Agriculture, total	1,236,646	557,578	617,887	61,181
Agricultural Cooperative Service	2,814	0	2,814	0
Agricultural Marketing Service 1/	4,231	0	3,716	515
Agricultural Research Service	590,986	309,676	241,123	40,187
Animal & Plant Health Inspection Service	15,736	0	0	15,736
Cooperative State Research Service	376,809	170,400	206,409	0
Economic Research Service	54,370	7,612	46,758	0
Federal Grain Inspection Service	725	0	650	75
Forest Service	174,700	66,600	103,600	4,500
Human Nutrition Information Service	9,899	0	9,899	0
National Agricultural Statistics Service	3,244	1,067	2,177	0
Office of International Cooperation and Development	3,132	2,223	741	168
Department of Commerce, total	489,601	34,332	415,374	39,895
Bureau of the Census	6,618	2,449	2,317	1,852
Economic Development Administration	1,381	0	1,381	0
National Institute of Standards & Technology	139,978	31,883	92,466	15,629
National Oceanic & Atmospheric Administration	338,049	0	315,635	22,414
National Telecommunications & Information Administration	3,575	0	3,575	0
Department of Defense, total	32,134,765	994,154	2,723,754	28,416,857
Department of the Army	6,081,507	188,593	671,911	5,221,003
Department of the Navy	7,806,000	388,000	486,000	6,932,000
Department of the Air Force	10,937,536	209,225	621,175	10,107,136
Defense agencies	7,072,452	208,336	944,668	5,919,448
Test & Evaluation, Deputy Under Secretary Defense	223,720	0	0	223,720
Director, Operational Test & Evaluation	13,550	0	0	13,550
Department of Education	171,017	8,552	123,114	39,351
Department of Energy	5,983,100	1,686,453	1,587,177	2,709,470
Department of Health and Human Services, total	9,755,999	5,050,114	3,112,373	1,593,512
Administration on Aging 2/	20,564	0	2,854	17,710
Administration for Children and Families 2/	129,000	0	13,500	115,500
Agency for Health Care Policy & Research 3/	101,132	0	93,041	8,091
Alcohol, Drug Abuse, & Mental Health Administration	1,460,598	459,093	463,880	537,625
Centers for Disease Control	113,372	0	113,372	0
Food & Drug Administration	125,020	0	125,020	0
Health Care Financing Administration	69,075	0	69,075	0
Health Resources and Services Administration	11,040	1,521	9,519	0
National Institutes of Health	7,695,507	4,589,500	2,193,511	912,496
Office of Assistant Secretary for Health	9,991	0	9,614	377
Office of the Secretary	8,811	0	8,811	0
Social Security Administration	11,889	0	10,176	1,713
Department of Housing and Urban Development	27,812	0	9,391	18,421

See explanatory information, if any, and SOURCE at end of table.

Table C-4. Federal obligations for total research and development, by agency and character of work: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Department of the Interior, total	592,938	229,294	324,102	39,542
Bureau of Land Management	8,770	1,097	4,845	2,828
Bureau of Mines	106,112	42,792	56,200	7,120
Bureau of Reclamation	8,700	100	7,700	900
Geological Survey	356,555	179,105	159,256	18,194
Minerals Management Service	2,686	0	2,686	0
National Park Service	27,474	0	27,474	0
Office of the Secretary	600	0	100	500
Office of Surface Mining Reclamation and Enforcement	1,041	0	1,041	0
United States Fish and Wildlife Service	81,000	6,200	64,800	10,000
Department of Justice, total	48,875	6,386	14,689	27,800
Bureau of Prisons 4/	5,200	0	1,900	3,300
Drug Enforcement Administration	2,700	0	900	1,800
Federal Bureau of Investigation	10,810	0	0	10,810
Immigration and Naturalization Service	400	0	400	0
Office of Justice Programs	29,765	6,386	11,489	11,890
Department of Labor, total	44,002	300	24,027	19,675
Bureau of Labor Statistics	7,500	0	7,500	0
Employment and Training Administration	22,100	300	6,300	15,500
Occupational Safety and Health Administration	2,603	0	2,603	0
Office of the Secretary	8,734	0	4,729	4,005
Pension Benefit Guaranty Corporation	525	0	355	170
Pension & Welfare Benefits Administration	2,540	0	2,540	0
Department of State	5,854	4,598	1,256	0
Department of Transportation, total	379,921	0	114,624	265,297
Coast Guard	25,535	0	6,384	19,151
Federal Aviation Administration	220,137	0	23,963	196,174
Federal Highway Administration	86,877	0	46,056	40,821
Federal Railroad Administration	15,896	0	13,193	2,703
Maritime Administration	1,713	0	1,713	0
National Highway Traffic Safety Administration	21,368	0	21,368	0
Office of the Secretary	4,284	0	586	3,698
Research and Special Programs Administration	2,378	0	1,361	1,017
Federal Transit Administration 5/	1,733	0	0	1,733
Department of the Treasury, total	30,835	3,576	20,560	6,699
Bureau of Engraving and Printing	3,547	0	2,719	828
Financial Crimes Enforcement Network	2,278	0	0	2,278
Internal Revenue Service	17,878	3,576	13,945	357
Office of Protective Research	406	0	406	0
Office of Thrift Supervision 6/	2,990	0	2,990	0
United States Customs Service	3,684	0	500	3,184
United States Mint	52	0	0	52
Department of Veterans Affairs	216,600	16,100	177,700	22,800

See explanatory information, if any, and SOURCE at end of table.

Table C-4. Federal obligations for total research and development, by agency and character of work: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Other agencies:				
Advisory Commission on Intergovernmental Relations	1,863	0	1,863	0
Agency for International Development	377,747	5,684	351,687	20,376
Appalachian Regional Commission	742	0	742	0
Consumer Product Safety Commission	1,313	0	883	430
Environmental Protection Agency	432,632	91,224	261,915	79,493
Federal Communications Commission	1,442	0	1,442	0
Federal Trade Commission	957	0	957	0
International Trade Commission	9,885	0	9,885	0
Library of Congress	9,048	373	1,331	7,344
National Aeronautics and Space Administration	7,280,239	1,705,575	1,665,587	3,909,077
National Archives & Records Admin	691	356	255	80
National Science Foundation	1,785,223	1,676,205	109,018	0
Nuclear Regulatory Commission	108,800	0	108,800	0
Smithsonian Institution	97,999	97,999	0	0
Tennessee Valley Authority	68,316	1,941	16,900	49,475
United States Arms Control and Disarmament Agency	390	0	390	0
United States Information Agency	100	0	100	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ Name changed from Urban Mass Transit Administration on December 18, 1991

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Total, all agencies	70,367,830	13,254,058	12,941,391	44,172,381
Departments:				
Department of Agriculture, total	1,336,451	614,417	657,999	64,035
Agricultural Cooperative Service	3,518	0	3,518	0
Agricultural Marketing Service 1/	4,676	0	4,074	602
Agricultural Research Service	628,379	337,439	249,467	41,473
Animal & Plant Health Inspection Service	16,732	0	0	16,732
Cooperative State Research Service	419,418	194,781	224,637	0
Economic Research Service	58,720	8,221	50,499	0
Federal Grain Inspection Service	1,164	0	1,036	128
Forest Service	188,100	71,700	111,300	5,100
Human Nutrition Information Service	10,788	0	10,788	0
National Agricultural Statistics Service	3,423	1,126	2,297	0
Office of International Cooperation and Development	1,533	1,150	383	0
Department of Commerce, total	620,725	34,915	495,720	90,090
Bureau of the Census	6,080	1,298	2,726	2,056
Economic Development Administration	500	0	500	0
National Institute of Standards & Technology	220,887	33,617	133,916	53,354
National Oceanic & Atmospheric Administration	389,307	0	354,627	34,680
National Telecommunications & Information Administration	3,951	0	3,951	0
Department of Defense, total	38,309,247	1,094,438	3,003,555	34,211,254
Department of the Army	6,631,232	191,134	689,605	5,750,493
Department of the Navy	9,199,000	394,000	501,000	8,304,000
Department of the Air Force	13,588,499	173,796	630,646	12,784,057
Defense agencies	8,681,700	335,508	1,182,304	7,163,888
Test & Evaluation, Deputy Under Secretary Defense	195,980	0	0	195,980
Director, Operational Test & Evaluation	12,836	0	0	12,836
Department of Education	199,641	6,293	143,296	50,052
Department of Energy	6,765,762	1,808,626	1,790,747	3,166,389
Department of Health and Human Services, total	10,677,474	5,511,449	3,388,465	1,777,560
Administration on Aging 2/	20,602	0	2,860	17,742
Administration for Children and Families 2/	155,300	0	14,400	140,900
Agency for Health Care Policy & Research 3/	106,344	0	97,836	8,508
Alcohol, Drug Abuse, & Mental Health Administration	1,583,213	490,464	492,639	600,110
Centers for Disease Control	117,400	0	117,400	0
Food & Drug Administration	137,706	0	137,706	0
Health Care Financing Administration	78,380	0	78,380	0
Health Resources and Services Administration	11,179	1,585	9,594	0
National Institutes of Health	8,422,700	5,019,400	2,394,000	1,009,300
Office of Assistant Secretary for Health	8,930	0	7,930	1,000
Office of the Secretary	5,012	0	5,012	0
Social Security Administration	30,708	0	30,708	0
Department of Housing and Urban Development	28,450	0	10,366	18,084

See explanatory information, if any, and SOURCE at end of table.

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Department of the Interior, total	612,811	232,233	334,492	46,086
Bureau of Land Management	9,277	1,572	4,714	2,991
Bureau of Mines	111,446	44,495	58,435	8,516
Bureau of Reclamation	13,200	0	10,700	2,500
Geological Survey	362,449	180,066	164,604	17,779
Minerals Management Service	3,685	0	3,685	0
National Park Service	29,000	0	29,000	0
Office of the Secretary	900	0	200	700
Office of Surface Mining Reclamation and Enforcement	254	0	254	0
United States Fish and Wildlife Service	82,600	6,100	62,900	13,600
Department of Justice, total	50,364	5,111	16,444	28,809
Bureau of Prisons 4/	5,300	0	2,000	3,300
Drug Enforcement Administration	1,800	0	300	1,500
Federal Bureau of Investigation	11,427	0	0	11,427
Immigration and Naturalization Service	400	0	400	0
Office of Justice Programs	31,437	5,111	13,744	12,582
Department of Labor, total	39,009	379	24,863	13,767
Bureau of Labor Statistics	7,600	0	7,600	0
Employment and Training Administration	16,600	300	6,500	9,800
Occupational Safety and Health Administration	3,219	0	3,219	0
Office of the Secretary	8,569	0	4,691	3,878
Pension Benefit Guaranty Corporation	561	79	393	89
Pension & Welfare Benefits Administration	2,460	0	2,460	0
Department of State	5,300	4,869	431	0
Department of Transportation, total	464,834	0	161,614	303,220
Coast Guard	28,750	0	7,188	21,562
Federal Aviation Administration	252,319	0	33,793	218,526
Federal Highway Administration	117,944	0	66,729	51,215
Federal Railroad Administration	29,190	0	24,227	4,963
Maritime Administration	1,751	0	1,751	0
National Highway Traffic Safety Administration	25,774	0	25,774	0
Office of the Secretary	5,085	0	740	4,345
Research and Special Programs Administration	2,521	0	1,412	1,109
Federal Transit Administration 5/	1,500	0	0	1,500
Department of the Treasury, total	31,316	3,576	21,315	6,425
Bureau of Engraving and Printing	4,245	0	3,565	680
Financial Crimes Enforcement Network	1,958	0	0	1,958
Internal Revenue Service	17,878	3,576	13,945	357
Office of Protective Research	532	0	532	0
Office of Thrift Supervision 6/	3,023	0	3,023	0
United States Customs Service	3,080	0	250	2,830
United States Mint	600	0	0	600
Department of Veterans Affairs	236,000	15,700	197,300	23,000

See explanatory information, if any, and SOURCE at end of table.

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Other agencies:				
Advisory Commission on Intergovernmental Relations	1,510	0	1,510	0
Agency for International Development	361,317	4,967	329,744	26,606
Appalachian Regional Commission	1,900	0	1,900	0
Consumer Product Safety Commission	1,222	0	818	404
Environmental Protection Agency	491,496	102,886	312,324	76,286
Federal Communications Commission	1,594	0	1,594	0
Federal Trade Commission	528	0	528	0
International Trade Commission	11,720	0	11,720	0
Library of Congress	10,606	454	1,571	8,581
National Aeronautics and Space Administration	7,860,299	1,902,730	1,761,354	4,196,215
National Archives & Records Admin	340	150	110	80
National Science Foundation	1,936,462	1,808,615	127,847	0
Nuclear Regulatory Commission	118,898	0	118,898	0
Smithsonian Institution	100,000	100,000	0	0
Tennessee Valley Authority	89,546	2,250	21,858	65,438
United States Arms Control and Disarmament Agency	2,058	0	2,058	0
United States Information Agency	950	0	950	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ Name changed from Urban Mass Transit Administration on December 18, 1991

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-6. Federal obligations for total research and development, by agency and character of work: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Total, all agencies	69,754,444	14,184,333	13,714,972	41,855,139
Departments:				
Department of Agriculture, total	1,337,168	642,159	629,661	65,348
Agricultural Cooperative Service	3,097	0	3,097	0
Agricultural Marketing Service 1/	4,299	0	3,729	570
Agricultural Research Service	654,323	351,371	259,766	43,186
Animal & Plant Health Inspection Service	16,651	0	0	16,651
Cooperative State Research Service	404,273	212,705	191,568	0
Economic Research Service	60,372	8,452	51,920	0
Federal Grain Inspection Service	1,280	0	1,139	141
Forest Service	177,300	67,500	105,000	4,800
Human Nutrition Information Service	10,788	0	10,788	0
National Agricultural Statistics Service	3,464	1,140	2,324	0
Office of International Cooperation and Development	1,321	991	330	0
Department of Commerce, total	622,614	39,525	494,318	88,771
Bureau of the Census	5,866	1,094	2,699	2,073
National Institute of Standards & Technology	231,071	38,431	143,222	49,418
National Oceanic & Atmospheric Administration	379,401	0	342,121	37,280
National Telecommunications & Information Administration	6,276	0	6,276	0
Department of Defense, total	36,155,150	1,161,832	3,365,000	31,628,318
Department of the Army	5,737,286	174,170	591,202	4,971,914
Department of the Navy	8,754,000	471,000	619,000	7,664,000
Department of the Air Force	12,652,446	185,476	829,215	11,637,755
Defense agencies	8,396,691	272,617	1,126,080	6,997,994
Test & Evaluation, Deputy Under Secretary Defense	287,302	0	0	287,302
Director, Operational Test & Evaluation	12,983	0	0	12,983
Health Affairs, Assistant Secretary of Defense for	314,442	58,569	199,503	56,370
Department of Education	210,396	6,492	140,020	63,884
Department of Energy	6,731,431	1,873,414	1,747,505	3,110,512
Department of Health and Human Services, total	11,142,684	5,848,617	3,460,164	1,833,903
Administration on Aging 2/	19,602	0	2,860	16,742
Administration for Children and Families 2/	142,200	0	16,000	126,200
Agency for Health Care Policy & Research 3/	73,856	0	67,948	5,908
Alcohol, Drug Abuse, & Mental Health Administration	1,680,447	519,223	522,634	638,590
Centers for Disease Control	118,325	0	118,325	0
Food & Drug Administration	143,300	0	143,300	0
Health Care Financing Administration	36,000	0	36,000	0
Health Resources and Services Administration	11,067	1,394	9,673	0
National Institutes of Health	8,888,100	5,328,000	2,515,500	1,044,600
Office of Assistant Secretary for Health	4,398	0	2,828	1,570
Office of the Secretary	5,224	0	5,224	0
Social Security Administration	20,165	0	19,872	293
Department of Housing and Urban Development	36,565	0	13,206	23,359

See explanatory information, if any, and SOURCE at end of table.

Table C-6. Federal obligations for total research and development, by agency and character of work: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Department of the Interior, total	541,360	194,758	311,448	35,154
Bureau of Land Management	16,222	2,141	8,850	5,231
Bureau of Mines	74,703	26,811	43,629	4,263
Bureau of Reclamation	9,300	0	8,300	1,000
Geological Survey	325,457	159,906	153,991	11,560
Minerals Management Service	3,678	0	3,678	0
National Park Service	29,500	0	29,500	0
Office of the Secretary	2,800	0	2,000	800
Office of Surface Mining Reclamation and Enforcement	400	0	400	0
United States Fish and Wildlife Service	79,300	5,900	61,100	12,300
Department of Justice, total	55,427	2,989	12,666	39,772
Bureau of Prisons 4/	5,600	0	2,000	3,600
Drug Enforcement Administration	1,800	0	300	1,500
Federal Bureau of Investigation	24,298	0	0	24,298
Immigration and Naturalization Service	400	0	400	0
Office of Justice Programs	23,329	2,989	9,966	10,374
Department of Labor, total	44,133	200	27,395	16,538
Bureau of Labor Statistics	8,400	0	8,400	0
Employment and Training Administration	16,800	200	3,800	12,800
Occupational Safety and Health Administration	3,219	0	3,219	0
Office of the Secretary	12,819	0	9,081	3,738
Pension Benefit Guaranty Corporation	535	0	535	0
Pension & Welfare Benefits Administration	2,360	0	2,360	0
Department of State	5,314	4,872	442	0
Department of Transportation, total	493,225	0	210,243	282,982
Coast Guard	29,500	0	7,375	22,125
Federal Aviation Administration	253,669	0	64,543	189,126
Federal Highway Administration	134,608	0	77,315	57,293
Federal Railroad Administration	25,539	0	21,197	4,342
Maritime Administration	1,734	0	1,734	0
National Highway Traffic Safety Administration	35,778	0	35,778	0
Office of the Secretary	4,626	0	763	3,863
Research and Special Programs Administration	2,671	0	1,538	1,133
Federal Transit Administration 5/	5,100	0	0	5,100
Department of the Treasury, total	34,584	3,576	19,665	11,343
Bureau of Engraving and Printing	1,325	0	1,325	0
Financial Crimes Enforcement Network	2,127	0	0	2,127
Internal Revenue Service	17,878	3,576	13,945	357
Office of Protective Research	572	0	572	0
Office of Thrift Supervision 6/	3,173	0	3,173	0
United States Customs Service	8,907	0	650	8,257
United States Mint	602	0	0	602
Department of Veterans Affairs	242,000	13,100	205,900	23,000

See explanatory information, if any, and SOURCE at end of table.

Table C-6. Federal obligations for total research and development, by agency and character of work: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Other agencies:				
Advisory Commission on Intergovernmental Relations	1,481	0	1,481	0
Agency for International Development	374,270	4,653	342,466	27,151
Appalachian Regional Commission	900	0	900	0
Consumer Product Safety Commission	1,503	0	1,090	413
Environmental Protection Agency	519,700	115,912	319,336	84,452
Federal Communications Commission	1,585	0	1,585	0
Federal Trade Commission	548	0	548	0
International Trade Commission	12,533	0	12,533	0
Library of Congress	10,539	460	1,573	8,506
National Aeronautics and Space Administration	8,628,726	2,060,152	2,103,082	4,465,492
National Archives & Records Admin	340	50	210	80
National Science Foundation	2,246,933	2,093,572	153,361	0
Nuclear Regulatory Commission	127,720	0	127,720	0
Smithsonian Institution	118,000	118,000	0	0
Tennessee Valley Authority	56,015	0	9,854	46,161
United States Arms Control and Disarmament Agency	1,000	0	1,000	0
United States Information Agency	600	0	600	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ Name changed from Urban Mass Trans% Administration on December 18, 1991

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-7. Federal obligations for total research and development, by agency and performer: fiscal year 1991

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Total, all agencies	61,295.2	15,238.1	26,420.6	2,068.3	10,168.5	3,603.8	2,637.4	679.4	215.1	263.9
Departments:										
Department of Agriculture, total	1,236.6	824.1	6.2	.0	385.8	-	11.0	-	3.4	6.2
Agricultural Cooperative Svc	2.8	2.8	-	-	.0	-	-	-	-	-
Agricultural Marketing Svc 2/	4.2	2.6	-	-	.2	-	-	-	1.4	-
Agricultural Research Svc	591.0	562.7	-	-	21.0	-	2.8	-	.2	4.4
Animal & Plant Health Inspection Svc	15.7	15.2	-	-	.4	-	.1	-	-	-
Cooperative State Research Svc	376.8	18.3	5.6	-	344.6	-	7.0	-	1.3	-
Economic Research Svc	54.4	52.6	-	-	1.8	-	-	-	-	-
Federal Grain Inspection Svc	.7	.4	-	-	.3	-	-	-	-	-
Forest Svc	174.7	156.0	.5	-	16.5	-	1.1	-	.5	.1
Human Nutrition Information Svc	9.9	9.3	.1	-	.5	-	-	-	-	-
Nat'l Agricultural Statistics Svc	3.2	3.0	-	.0	.3	-	-	-	-	-
Office of International Cooperation & Development	3.1	1.1	-	-	.4	-	-	-	-	1.7
Department of Commerce, total	489.6	399.5	17.0	-	62.7	.1	3.0	.1	7.1	.1
Bureau of the Census	6.6	4.4	-	-	2.2	-	-	-	-	-
Economic Development Admin	1.4	.8	-	-	.5	-	.0	-	.1	-
Nat'l Inst of Standards & Tech	140.0	123.9	7.7	-	5.4	.1	2.8	.1	-	.0
Nat'l Oceanic & Atmospheric Admin	338.0	266.9	9.3	-	54.6	-	.2	.0	7.0	.1
Nat'l Telecomm & Information Admin	3.6	3.6	-	-	-	-	-	-	-	-
Dept of Defense, research 3/	3,717.9	1,403.7	1,297.6	38.8	793.8	77.4	52.1	34.8	.0	19.6
Dept of Defense, development 3/	28,416.9	6,753.1	19,736.0	277.2	358.0	559.8	215.2	407.6	.5	109.4
Department of the Army R&D	6,081.5	2,238.4	3,511.0	8.3	116.9	104.2	51.7	37.8	.0	13.3
Department of the Navy R&D	7,806.0	3,003.6	4,010.2	156.8	461.0	6.9	44.9	57.1	-	65.4
Department of the Air Force R&D	10,937.5	836.7	9,678.7	24.7	141.2	39.8	11.2	202.6	-	2.6
Defense agencies R&D	7,072.5	1,960.4	3,731.3	126.3	431.5	486.3	159.5	129.8	-	47.3
Test & Evaluation, Deputy Under Secretary Defense R&D	223.7	116.8	101.6	-	1.3	-	-	3.1	.4	.5
Director, Operational Test and Evaluation R&D	13.6	.9	.8	-	-	-	-	11.9	-	-
Department of Education	171.0	10.7	9.5	-	100.9	-	48.0	-	1.9	.1
Department of Energy	5,983.1	381.1	854.9	1,690.4	620.7	2,071.7	171.0	186.3	4.9	2.2
Dept of Health & Human Svcs, total	9,756.0	1,975.1	373.0	16.6	5,658.2	28.2	1,487.2	17.1	152.7	47.9
Admin on Aging 4/	20.6	.6	-	-	1.2	-	10.0	-	8.7	-
Admin for Children and Families 4/	129.0	1.6	2.1	-	11.7	-	88.3	-	25.3	-
Agency for Health Care Policy & Research 5/	101.1	23.2	10.2	-	52.6	-	13.6	-	1.6	.1
Alcohol, Drug Abuse, & Mental Health Admin	1,460.6	379.8	11.3	-	859.0	.6	149.9	-	53.1	6.8
Centers for Disease Control	113.4	55.5	1.9	-	33.6	-	22.2	-	-	.2
Food & Drug Admin	125.0	85.3	13.9	-	14.7	-	6.2	-	4.9	-
Health Care Financing Admin	69.1	.2	16.4	-	10.7	-	36.6	-	5.1	.1
Health Resources and Svcs Admin	11.0	4.0	-	-	5.4	-	-	1.7	-	-
Nat'l Institutes of Health	7,695.5	1,407.9	315.2	16.6	4,662.3	27.6	1,156.6	15.4	53.5	40.6
Office of Asst Secretary for Health	10.0	9.6	-	-	.2	-	.2	-	-	-
Office of the Secretary	8.8	1.3	1.6	-	3.8	-	1.5	-	.5	.1
Social Security Admin	11.9	6.0	.5	-	3.1	-	2.2	-	.0	.0
Dept of Housing & Urban Development	27.8	15.3	11.2	-	.0	-	1.3	-	-	-

See explanatory information, if any, and SOURCE at end of table.

Table C-7. Federal obligations for total research and development, by agency and performer: fiscal year 1991

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Department of the Interior, total	592.9	489.5	32.8	3.6	58.5	-	1.5	-	6.3	.6
Bureau of Land Management	8.8	3.7	-	-	5.1	-	-	-	-	-
Bureau of Mines	106.1	74.6	14.5	3.6	11.1	-	-	-	2.5	-
Bureau of Reclamation	8.7	8.7	-	-	-	-	-	-	-	-
Geological Survey	356.6	309.1	17.5	-	24.7	-	1.4	-	3.8	.1
Minerals Management Svc	2.7	1.3	.2	.1	.4	-	.1	-	-	.6
Nat'l Park Svc	27.5	18.3	-	-	9.1	-	.1	-	-	-
Office of the Secretary	.6	.1	.6	-	-	-	-	-	-	-
Office of Surface Mining Reclamation & Enforcement	1.0	.0	-	-	1.0	-	-	-	-	-
US Fish & Wildlife Svc	81.0	73.9	-	-	7.1	-	-	-	-	-
Department of Justice, total	48.9	14.1	7.8	.9	6.1	-	14.9	-	5.2	-
Bureau of Prisons 6/	5.2	1.9	.2	-	-	-	-	-	3.2	-
Drug Enforcement Admin	2.7	.3	1.5	.9	-	-	-	-	-	-
Federal Bureau of Investigation	10.8	10.8	-	-	-	-	-	-	-	-
Immigration & Naturalization Svc	.4	.0	.4	-	-	-	-	-	-	-
Office of Justice Programs	29.8	1.1	5.8	-	6.1	-	14.9	-	2.0	-
Department of Labor, total	44.0	11.0	17.9	-	5.5	-	5.8	-	3.8	.0
Bureau of Labor Statistics	7.5	2.5	-	-	5.0	-	-	-	-	-
Employment and Training Admin	22.1	4.3	10.4	-	-	-	4.1	-	3.3	-
Occupational Safety & Health Admin	2.6	.4	2.2	-	-	-	-	-	-	-
Office of the Secretary	8.7	2.8	3.2	-	.5	-	1.7	-	.5	.0
Pension Benefit Guaranty Corporation	.5	.4	.1	-	-	-	-	-	-	-
Pension & Welfare Benefit Admin	2.5	.5	2.0	-	-	-	-	-	-	-
Department of State	5.9	.3	.1	-	.9	-	4.5	-	-	.0
Department of Transportation, total	379.9	234.8	88.2	.2	21.2	-	7.2	17.7	10.0	.7
Coast Guard	25.5	18.1	6.7	-	.7	-	-	-	-	-
Federal Aviation Admin	220.1	188.5	6.8	-	7.1	-	-	17.7	-	-
Federal Highway Admin	86.9	2.6	61.9	.2	10.6	-	1.5	-	9.9	.1
Federal Railroad Admin	15.9	8.4	2.8	-	.6	-	4.1	-	-	-
Maritime Admin	1.7	1.0	.5	-	.3	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	21.4	10.0	8.1	-	1.0	-	1.6	-	.0	.6
Office of the Secretary	4.3	3.1	1.0	-	.2	-	-	-	-	-
Research & Special Programs Admin	2.4	2.1	.3	-	-	-	-	-	-	-
Federal Transit Admin 7/	1.7	1.0	-	-	.7	-	-	-	-	-
Department of the Treasury, total	30.8	21.1	9.5	-	-	.2	-	-	-	-
Bureau of Engraving and Printing	3.5	3.3	-	-	-	.2	-	-	-	-
Financial Crimes Enforcement Network	2.3	2.3	-	-	-	-	-	-	-	-
Internal Revenue Svc	17.9	11.9	5.9	-	-	-	-	-	-	-
Office of Protective Research	.4	.2	.2	-	-	-	-	-	-	-
Office of Thrift Supervision 8/	3.0	3.0	-	-	-	-	-	-	-	-
United States Customs Svc	3.7	.3	3.4	-	-	-	-	-	-	-
United States Mint	.1	.1	-	-	-	-	-	-	-	-
Department of Veterans Affairs	216.6	214.3	-	-	2.3	-	-	-	-	-

See explanatory information, if any, and SOURCE at end of table.

Table C-7. Federal obligations for total research and development, by agency and performer: fiscal year 1991

[Dollars in millions]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Advisory Commission on Intergovernmental Relations	1.7	1.7	-	-	-	-	-	-	-	-
Agency for International Development	377.7	12.5	19.5	-	55.0	-	235.2	-	-	55.6
Appalachian Regional Commission	.7	.1	.3	-	.0	-	-	-	.3	-
Consumer Product Safety Commission	1.3	1.2	.1	-	-	-	-	-	-	-
Environmental Protection Agency	432.6	167.2	161.6	-	62.7	.1	28.7	-	12.4	-
Federal Communications Commission	1.4	1.4	-	-	-	-	-	-	-	-
Federal Trade Commission	1.0	1.0	-	-	-	-	-	-	-	-
International Trade Commission	9.9	9.9	-	-	-	-	-	-	-	-
Library of Congress	9.0	9.0	-	-	-	-	-	-	-	-
Nat'l Aeronautics & Space Admin	7,280.2	2,112.0	3,667.0	-	533.7	736.3	212.9	1.9	4.6	11.7
Nat'l Archives & Records Admin	.7	.6	-	-	-	.1	-	-	-	-
Nat'l Science Foundation	1,785.2	13.0	102.8	.7	1,435.5	111.3	112.3	.3	2.1	7.2
Nuclear Regulatory Commission	108.8	19.9	7.5	39.9	5.4	18.4	1.6	13.5	-	2.5
Smithsonian Institution	98.0	98.0	-	-	-	-	-	-	-	-
Tennessee Valley Authority	68.3	42.8	-	-	1.5	-	24.0	-	-	-
US Arms Control & Disarmament Agency	.4	.1	.2	-	.0	.1	-	-	-	-
United States Information Agency	.1	.1	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ Beginning with Volume XL, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

4/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ Formerly listed as Federal Prison System

7/ Name changed from Urban Mass Transit Administration on December 18, 1991

8/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1992 (estimates)

[Dollars in millions]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	70,367.8	16,634.6	32,155.6	2,177.5	11,297.7	3,831.4	2,944.2	712.9	274.9	339.1
Departments:										
Department of Agriculture, total	1,336.5	885.4	8.9	.0	424.4	-	11.2	-	2.9	3.7
Agricultural Cooperative Svc	3.5	3.3	-	-	.2	-	-	-	-	-
Agricultural Marketing Svc 2/	4.7	3.4	-	-	-	-	-	-	1.3	-
Agricultural Research Svc	628.4	600.0	-	-	21.6	-	3.1	-	.2	3.6
Animal & Plant Health Inspection Svc	16.7	16.2	-	-	.5	-	-	-	-	-
Cooperative State Research Svc	419.4	20.3	6.1	-	384.6	-	7.3	-	1.1	-
Economic Research Svc	58.7	57.0	-	-	1.7	-	-	-	-	-
Federal Grain Inspection Svc	1.2	.9	-	-	.3	-	-	-	-	-
Forest Svc	188.1	172.1	.4	-	14.3	-	.8	-	.4	.1
Human Nutrition Information Svc	10.8	7.7	2.4	-	.6	-	-	-	-	-
Nat'l Agricultural Statistics Svc	3.4	3.2	-	.0	.2	-	-	-	-	-
Office of International Cooperation & Development	1.5	1.2	-	-	.3	-	-	-	-	-
Department of Commerce, total	620.7	425.9	120.1	-	62.8	1.5	3.5	.1	6.7	.1
Bureau of the Census	6.1	5.1	-	-	1.0	-	-	-	-	-
Economic Development Admin	.5	.1	-	-	.3	-	.1	-	-	-
Nat'l Inst of Standards & Tech	220.9	131.6	80.5	-	5.2	.1	3.3	.1	-	.0
Nat'l Oceanic & Atmospheric Admin	389.3	285.2	39.6	-	56.3	1.3	.1	.0	6.7	.1
Nat'l Telecomm & Information Admin	4.0	4.0	-	-	-	-	-	-	-	-
Dept of Defense, research 3/	4,098.0	1,474.0	1,465.8	31.5	956.1	69.3	73.2	12.3	.0	15.8
Dept of Defense, development 3/	34,211.3	7,317.4	24,509.3	281.0	642.4	575.5	270.3	436.3	2.8	176.3
Department of the Army R&D	6,631.2	2,372.8	3,814.4	6.6	121.2	185.1	90.0	27.6	.0	13.5
Department of the Navy R&D	9,199.0	3,041.9	5,340.0	156.8	466.9	6.7	51.8	55.5	-	79.5
Department of the Air Force R&D	13,588.5	1,403.8	11,781.9	7.0	129.3	46.6	9.9	205.0	2.5	2.5
Defense agencies R&D	8,681.7	1,888.9	4,928.3	142.2	880.0	405.2	190.7	149.9	-	96.5
Test & Evaluation, Deputy Under Secretary Defense R&D	196.0	82.9	110.4	-	1.1	1.2	-	-	.4	-
Director, Operational Test and Evaluation R&D	12.8	1.1	-	-	-	-	1.1	10.6	-	-
Department of Education	199.6	11.6	11.7	-	117.6	-	57.1	-	1.6	.1
Department of Energy	6,765.8	498.4	1,243.5	1,787.7	640.0	2,233.0	148.3	207.6	4.8	2.5
Dept of Health & Human Svcs, total	10,677.5	2,244.6	429.4	19.7	5,987.8	33.2	1,689.1	24.2	193.8	55.7
Admin on Aging 4/	20.6	.7	-	-	2.4	-	9.4	-	8.2	-
Admin for Children and Families 4/	155.3	1.9	2.5	-	12.7	-	94.5	-	43.7	-
Agency for Health Care Policy & Research 5/	106.3	24.4	6.7	-	55.3	-	18.3	-	1.6	.1
Alcohol, Drug Abuse, & Mental Health Admin	1,583.2	412.2	17.6	-	927.2	1.4	159.3	-	57.1	8.4
Centers for Disease Control	117.4	58.9	1.9	-	33.6	-	22.8	-	-	.2
Food & Drug Admin	137.7	94.0	15.3	-	16.2	-	6.8	-	5.4	-
Health Care Financing Admin	78.4	.2	17.2	-	10.5	-	37.2	-	13.1	.1
Health Resources and Svcs Admin	11.2	4.2	-	-	5.2	-	-	1.7	-	-
Nat'l Institutes of Health	8,422.7	1,625.2	363.1	19.7	4,922.0	31.8	1,330.0	22.5	61.7	46.8
Office of Asst Secretary for Health	8.9	8.0	-	-	.7	-	.2	-	-	-
Office of the Secretary	5.0	.9	1.1	-	1.0	-	1.4	-	.6	-
Social Security Admin	30.7	14.0	4.1	-	1.0	-	9.0	-	2.5	.1
Dept of Housing & Urban Development	28.5	15.6	8.5	-	.5	-	3.8	-	.2	-

See explanatory information, if any, and SOURCE at end of table.

Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1992 (estimates)

[Dollars in millions]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Interior, total	612.8	525.9	18.5	3.6	56.0	-	2.3	-	4.4	2.2
Bureau of Land Management	9.3	3.7	-	-	5.6	-	-	-	-	-
Bureau of Mines	111.4	96.1	1.6	3.6	9.9	-	-	-	.2	-
Bureau of Reclamation	13.2	12.1	-	-	.3	-	.8	-	-	-
Geological Survey	362.4	318.0	15.8	-	23.2	-	1.3	-	4.1	.0
Minerals Management Svc	3.7	.9	.3	.0	.3	-	-	-	-	2.1
Nat'l Park Svc	29.0	19.8	-	-	9.0	-	.2	-	-	-
Office of the Secretary	.9	.1	.8	-	-	-	-	-	-	-
Office of Surface Mining Reclamation & Enforcement	.3	.0	-	-	.3	-	-	-	-	-
US Fish & Wildlife Svc	82.6	75.2	-	-	7.4	-	-	-	-	-
Department of Justice, total	50.4	15.7	7.2	.5	5.7	-	16.2	-	5.1	-
Bureau of Prisons 6/	5.3	2.0	.2	-	-	-	-	-	3.2	-
Drug Enforcement Admin	1.8	.4	.9	.5	-	-	-	-	-	-
Federal Bureau of Investigation	11.4	11.4	-	-	-	-	-	-	-	-
Immigration & Naturalization Svc	.4	.0	.4	-	-	-	-	-	-	-
Office of Justice Programs	31.4	1.9	5.8	-	5.7	-	16.2	-	1.9	-
Department of Labor, total	39.0	15.7	12.4	-	2.5	-	3.5	-	5.0	-
Bureau of Labor Statistics	7.6	7.6	-	-	-	-	-	-	-	-
Employment and Training Admin	16.6	3.2	4.4	-	2.0	-	2.1	-	4.9	-
Occupational Safety & Health Admin	3.2	.4	2.8	-	-	-	-	-	-	-
Office of the Secretary	8.6	3.6	3.1	-	.5	-	1.4	-	.1	-
Pension Benefit Guaranty Corporation	.6	.3	.3	-	-	-	-	-	-	-
Pension & Welfare Benefit Admin	2.5	.6	1.9	-	-	-	-	-	-	-
Department of State	5.3	.4	.1	-	-	-	4.8	-	-	-
Department of Transportation, total	464.8	242.2	142.6	8.6	26.2	-	10.7	17.6	15.9	1.1
Coast Guard	28.8	20.4	-	7.6	.7	-	-	-	-	-
Federal Aviation Admin	252.3	190.1	37.5	-	6.7	-	.4	17.6	-	-
Federal Highway Admin	117.9	2.0	84.3	.9	15.8	-	1.8	-	12.8	.4
Federal Railroad Admin	29.2	11.6	8.5	-	.2	-	5.9	-	3.0	-
Maritime Admin	1.8	1.1	.6	-	.1	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	25.8	10.3	10.1	-	2.0	-	2.6	-	.1	.7
Office of the Secretary	5.1	3.8	1.2	-	-	-	-	.1	-	-
Research & Special Programs Admin	2.5	1.8	.5	-	.2	-	-	-	-	-
Federal Transit Admin 7/	1.5	1.0	-	-	.5	-	-	-	-	-
Department of the Treasury, total	31.3	21.3	9.6	-	-	.4	-	-	-	-
Bureau of Engraving and Printing	4.2	4.2	-	-	-	.1	-	-	-	-
Financial Crimes Enforcement Network	2.0	1.6	-	-	-	.3	-	-	-	-
Internal Revenue Svc	17.9	11.9	5.9	-	-	-	-	-	-	-
Office of Protective Research	.5	.2	.3	-	-	-	-	-	-	-
Office of Thrift Supervision 8/	3.0	3.0	-	-	-	-	-	-	-	-
United States Customs Svc	3.1	.3	2.8	-	-	-	-	-	-	-
United States Mint	.6	.1	.5	-	-	-	-	-	-	-
Department of Veterans Affairs	236.0	233.5	-	-	2.6	-	-	-	-	-

See explanatory information, if any, and SOURCE at end of table.

Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1992 (estimates)

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Other agencies:										
Advisory Commission on Intergovernmental Relations	1.5	1.5	-	-	-	-	-	-	-	-
Agency for International Development	361.3	9.3	16.1	-	39.5	-	236.7	-	-	59.6
Appalachian Regional Commission	1.9	.0	1.8	-	.1	-	-	-	.1	-
Consumer Product Safety Commission	1.2	1.1	.2	-	-	-	-	-	-	-
Environmental Protection Agency	491.5	109.7	201.0	-	120.3	.1	36.4	-	23.9	-
Federal Communications Commission	1.6	1.6	-	-	-	-	-	-	-	-
Federal Trade Commission	.5	.5	-	-	-	-	-	-	-	-
International Trade Commission	11.7	11.7	-	-	-	-	-	-	-	-
Library of Congress	10.6	10.6	-	-	-	-	-	-	-	-
Nat'l Aeronautics & Space Admin	7,860.3	2,361.5	3,845.8	-	632.0	772.8	229.9	1.9	4.6	11.7
Nat'l Archives & Records Admin	.3	.3	-	-	-	-	-	-	-	-
Nat'l Science Foundation	1,936.5	12.9	92.6	.8	1,574.0	124.6	120.5	.4	3.2	7.7
Nuclear Regulatory Commission	118.9	21.6	9.2	44.0	5.7	21.1	2.4	12.3	-	2.8
Smithsonian Institution	100.0	100.0	-	-	-	-	-	-	-	-
Tennessee Valley Authority	89.5	63.4	-	-	1.6	-	24.5	-	-	-
US Arms Control & Disarmament Agency	2.1	.3	1.3	.1	.1	.1	-	.3	-	-
United States Information Agency	1.0	1.0	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ Beginning with Volume XL, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

4/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ Formerly listed as Federal Prison System

7/ Name changed from Urban Mass Transit Administration on December 18, 1991

8/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-9. Federal obligations for total research and development, by agency and performer: fiscal year 1993 (estimates)

[Dollars in millions]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	69,754.4	16,643.1	31,202.7	2,142.3	11,763.5	3,702.8	2,956.7	721.0	286.4	336.0
Departments:										
Department of Agriculture, total	1,337.2	899.2	9.2	.0	415.8	-	6.5	-	2.7	3.7
Agricultural Cooperative Svc	3.1	3.1	-	-	-	-	-	-	-	-
Agricultural Marketing Svc 2/	4.3	3.3	-	-	-	-	-	-	1.0	-
Agricultural Research Svc	654.3	624.9	-	-	22.3	-	3.3	-	.2	3.6
Animal & Plant Health Inspection Svc	16.7	16.1	-	-	.5	-	-	-	-	-
Cooperative State Research Svc	404.3	19.8	5.8	-	375.3	-	2.3	-	1.1	-
Economic Research Svc	60.4	58.7	-	-	1.7	-	-	-	-	-
Federal Grain Inspection Svc	1.3	.9	-	-	.4	-	-	-	-	-
Forest Svc	177.3	160.6	.4	-	14.9	-	.9	-	.4	.1
Human Nutrition Information Svc	10.8	7.6	3.0	-	.2	-	-	-	-	-
Nat'l Agricultural Statistics Svc	3.5	3.2	-	.0	.2	-	-	-	-	-
Office of International Cooperation & Development	1.3	1.1	-	-	.2	-	-	-	-	-
Department of Commerce, total	622.6	477.0	87.6	-	50.4	.1	2.7	.1	4.6	.1
Bureau of the Census	5.9	5.1	-	-	.8	-	-	-	-	-
Nat'l Inst of Standards & Tech	231.1	159.0	63.5	-	5.6	.1	2.6	.1	-	.0
Nat'l Oceanic & Atmospheric Admin	379.4	306.6	24.0	-	44.0	-	.1	.0	4.6	.1
Nat'l Telecomm & Information Admin	6.3	6.3	-	-	-	-	-	-	-	-
Dept of Defense, research 3/	4,526.8	1,734.6	1,486.5	21.8	1,131.1	66.1	60.7	9.5	.0	16.5
Dept of Defense, development 3/	31,628.3	6,542.1	23,056.3	292.8	427.3	491.7	211.2	437.7	.6	168.7
Department of the Army R&D	5,737.3	2,095.8	3,303.8	8.3	119.9	128.4	43.9	30.5	.0	6.7
Department of the Navy R&D	8,754.0	3,024.3	4,872.2	164.7	510.7	4.6	39.5	54.1	-	83.9
Department of the Air Force R&D	12,652.4	1,148.2	11,075.5	4.8	145.7	51.0	12.0	212.3	-	3.0
Defense agencies R&D	8,396.7	1,689.9	5,075.7	136.8	724.4	371.7	173.3	138.5	-	86.4
Test & Evaluation, Deputy Under Secretary Defense R&D	287.3	108.7	173.2	-	2.8	2.0	-	-	.6	-
Director, Operational Test and Evaluation R&D	13.0	1.1	-	-	-	-	-	11.8	-	-
Health Affairs, Assistant Secretary of Defense for R&D	314.4	208.7	42.3	-	55.0	-	3.2	-	-	5.2
Department of Education	210.4	13.3	10.4	-	119.4	-	45.6	-	21.6	.1
Department of Energy	6,731.4	567.1	1,241.6	1,759.3	576.2	2,202.5	163.6	215.8	3.5	1.8
Dept of Health & Human Svcs, total	11,142.7	2,360.5	452.1	20.8	6,284.0	35.2	1,718.8	25.5	187.0	58.8
Admin on Aging 4/	19.6	.6	-	-	2.1	-	9.1	-	7.8	-
Admin for Children and Families 4/	142.2	1.7	2.3	-	12.8	-	85.3	-	40.1	-
Agency for Health Care Policy & Research 5/	73.9	17.0	7.4	-	38.4	-	9.9	-	1.2	-
Alcohol, Drug Abuse, & Mental Health Admin	1,680.4	443.4	18.7	-	979.9	1.5	167.7	-	60.4	8.9
Centers for Disease Control	118.3	59.5	1.0	-	33.6	-	24.0	-	-	.2
Food & Drug Admin	143.3	97.8	15.9	-	16.8	-	7.1	-	5.6	-
Health Care Financing Admin	36.0	.2	17.4	-	10.6	-	4.7	-	3.2	-
Health Resources and Svcs Admin	11.1	4.1	-	-	5.2	-	-	1.7	-	-
Nat'l Institutes of Health	8,888.1	1,720.1	384.2	20.8	5,181.2	33.8	1,409.3	23.8	65.4	49.7
Office of Asst Secretary for Health	4.4	3.0	-	-	1.1	-	.3	-	-	-
Office of the Secretary	5.2	1.0	1.0	-	1.5	-	1.2	-	.5	-
Social Security Admin	20.2	12.0	4.3	-	.8	-	.1	-	2.9	.1
Dept of Housing & Urban Development	36.6	16.9	15.5	-	.2	-	4.0	-	-	-

See explanatory information, if any, and SOURCE at end of table.

Table C-9. Federal obligations for total research and development, by agency and performer: fiscal year 1993 (estimates)

[Dollars in millions]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Interior, total	541.4	482.0	13.1	.0	40.2	-	1.2	-	3.0	2.0
Bureau of Land Management	16.2	6.7	-	-	9.5	-	-	-	-	-
Bureau of Mines	74.7	74.7	-	-	-	-	-	-	-	-
Bureau of Reclamation	9.3	8.6	-	-	.7	-	-	-	-	-
Geological Survey	325.5	299.1	10.2	-	12.3	-	.9	-	3.0	-
Minerals Management Svc	3.7	.9	.3	.0	.4	-	-	-	-	2.0
Nat'l Park Svc	29.5	20.3	-	-	9.0	-	.3	-	-	-
Office of the Secretary	2.8	.3	2.5	-	-	-	-	-	-	-
Office of Surface Mining Reclamation & Enforcement	.4	.0	-	-	.4	-	-	-	-	-
US Fish & Wildlife Svc	79.3	71.4	-	-	7.9	-	-	-	-	-
Department of Justice, total	55.4	28.9	6.3	.5	4.2	-	9.7	-	5.7	-
Bureau of Prisons 6/	5.6	2.0	.2	-	-	-	-	-	3.5	-
Drug Enforcement Admin	1.8	.4	.9	.5	-	-	-	-	-	-
Federal Bureau of Investigation	24.3	24.3	-	-	-	-	-	-	-	-
Immigration & Naturalization Svc	.4	.0	.4	-	-	-	-	-	-	-
Office of Justice Programs	23.3	2.3	4.9	-	4.2	-	9.7	-	2.2	-
Department of Labor, total	44.1	14.7	16.5	-	2.8	-	3.5	-	6.5	-
Bureau of Labor Statistics	8.4	8.4	-	-	-	-	-	-	-	-
Employment and Training Admin	16.8	1.7	5.8	-	2.0	-	.8	-	6.5	-
Occupational Safety & Health Admin	3.2	.4	2.8	-	-	-	-	-	-	-
Office of the Secretary	12.8	3.6	5.7	-	.8	-	2.7	-	.1	-
Pension Benefit Guaranty Corporation	.5	.1	.5	-	-	-	-	-	-	-
Pension & Welfare Benefit Admin	2.4	.6	1.8	-	-	-	-	-	-	-
Department of State	5.3	.4	.1	-	-	-	4.8	-	-	-
Department of Transportation, total	493.2	261.5	158.2	1.4	31.9	-	9.4	14.8	14.6	1.4
Coast Guard	29.5	20.9	7.9	-	.7	-	-	-	-	-
Federal Aviation Admin	253.7	205.9	26.1	-	6.7	-	.2	14.7	-	-
Federal Highway Admin	134.6	3.7	96.9	1.1	18.0	-	-	-	14.5	.4
Federal Railroad Admin	25.5	11.5	7.7	-	.1	-	6.2	-	-	-
Maritime Admin	1.7	1.0	.7	-	.1	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	35.8	12.4	17.3	-	2.0	-	3.0	-	.1	1.0
Office of the Secretary	4.6	3.3	1.3	-	-	-	-	.1	-	-
Research & Special Programs Admin	2.7	1.8	.3	.3	.2	-	-	-	-	-
Federal Transit Admin 7/	5.1	1.0	-	-	4.1	-	-	-	-	-
Department of the Treasury, total	34.6	18.9	15.4	-	-	.3	-	-	-	-
Bureau of Engraving and Printing	1.3	1.3	-	-	-	-	-	-	-	-
Financial Crimes Enforcement Network	2.1	1.8	-	-	-	.3	-	-	-	-
Internal Revenue Svc	17.9	11.9	5.9	-	-	-	-	-	-	-
Office of Protective Research	.6	.3	.3	-	-	-	-	-	-	-
Office of Thrift Supervision 8/	3.2	3.2	-	-	-	-	-	-	-	-
United States Customs Svc	8.9	.3	8.6	-	-	-	-	-	-	-
United States Mint	.6	.1	.5	-	-	-	-	-	-	-
Department of Veterans Affairs	242.0	239.5	-	-	2.6	-	-	-	-	-

See explanatory information, if any, and SOURCE at end of table.

Table C-9. Federal obligations for total research and development, by agency and performer: fiscal year 1993 (estimates)

[Dollars in millions]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Advisory Commission on Intergovernmental Relations	1.5	1.5	-	-	-	-	-	-	-	-
Appalachian Regional Commission	.9	.1	.6	-	.1	-	-	-	.2	-
Consumer Product Safety Commission	1.5	1.2	.3	-	-	-	-	-	-	-
Environmental Protection Agency	519.7	116.3	214.3	-	123.3	.1	38.2	-	27.5	-
Federal Communications Commission	1.6	1.6	-	-	-	-	-	-	-	-
Federal Trade Commission	.5	.5	-	-	-	-	-	-	-	-
International Trade Commission	12.5	12.5	-	-	-	-	-	-	-	-
Library of Congress	10.5	10.5	-	-	-	-	-	-	-	-
Nat'l Aeronautics & Space Admin	8,628.7	2,646.0	4,287.7	-	675.0	749.5	252.3	1.9	4.6	11.7
Nat'l Archives & Records Admin	.3	.2	-	-	-	.1	-	-	-	-
Nat'l Science Foundation	2,246.9	15.6	101.9	.8	1,837.6	135.0	142.9	.4	4.4	8.4
Nuclear Regulatory Commission	127.7	22.6	12.6	44.7	5.9	22.1	1.8	15.1	-	2.9
Smithsonian Institution	118.0	118.0	-	-	-	-	-	-	-	-
Tennessee Valley Authority	56.0	30.9	-	-	.5	-	24.6	-	-	-
US Arms Control & Disarmament Agency	1.0	.2	.6	.1	.0	-	-	.1	-	-
United States Information Agency	.6	.6	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ Beginning with Volume XL, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

4/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ Formerly listed as Federal Prison System

7/ Name changed from Urban Mass Transit Administration on December 18, 1991

8/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-10. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Research and development				R&D plant			
	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts
Total, all agencies	6,351,555	2,068,320	3,603,818	679,417	923,876	279,638	624,578	19,660
Departments:								
Department of Agriculture, total	2	2	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2	2	0	0	0	0	0	0
Department of Commerce, total	270	0	145	125	0	0	0	0
Nat'l Inst of Standards & Tech	245	0	145	100	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	25	0	0	25	0	0	0	0
Department of Defense, total	1,395,634	316,040	637,260	442,334	2,413	1,915	498	0
Department of the Army	150,253	8,261	104,191	37,801	0	0	0	0
Department of the Navy	220,835	156,772	6,937	57,126	0	0	0	0
Department of the Air Force	267,144	24,705	39,838	202,601	1,313	915	398	0
Defense agencies	742,424	126,302	486,294	129,828	1,100	1,000	100	0
Test & Evaluation, Deputy Under Secretary Defense	3,122	0	0	3,122	0	0	0	0
Director, Operational Test and Evaluation	11,856	0	0	11,856	0	0	0	0
Department of Energy	3,948,353	1,690,390	2,071,670	186,293	783,203	277,723	485,820	19,660
Dept of Health & Human Svcs, total	61,904	16,554	28,203	17,147	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	632	0	632	0	0	0	0	0
Health Resources and Svcs Admin	1,699	0	0	1,699	0	0	0	0
Nat'l Institutes of Health	59,573	16,554	27,571	15,448	0	0	0	0
Department of the Interior, total	3,648	3,648	0	0	0	0	0	0
Bureau of Mines	3,558	3,558	0	0	0	0	0	0
Minerals Management Svc	90	90	0	0	0	0	0	0
Department of Justice, total	900	900	0	0	0	0	0	0
Drug Enforcement Admin	900	900	0	0	0	0	0	0
Department of Transportation, total	17,888	150	0	17,738	0	0	0	0
Federal Aviation Admin	17,738	0	0	17,738	0	0	0	0
Federal Highway Admin	150	150	0	0	0	0	0	0
Department of the Treasury, total	229	0	229	0	0	0	0	0
Bureau of Engraving and Printing	229	0	229	0	0	0	0	0
Other agencies:								
Environmental Protection Agency	75	0	75	0	0	0	0	0
Nat'l Aeronautics & Space Admin	738,282	0	736,342	1,940	57,744	0	57,744	0
Nat'l Archives & Records Admin	100	0	100	0	0	0	0	0
Nat'l Science Foundation	112,338	716	111,305	317	80,516	0	80,516	0
Nuclear Regulatory Commission	71,882	39,920	18,439	13,523	0	0	0	0
US Arms Control & Disarmament Agency	50	0	50	0	0	0	0	0

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Research and development				R&D plant			
	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts
Total, all agencies	6,721,824	2,177,479	3,831,432	712,913	966,900	270,852	668,818	27,230
Departments:								
Department of Agriculture, total	30	30	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	30	30	0	0	0	0	0	0
Department of Commerce, total	1,593	0	1,468	125	0	0	0	0
Nat'l Inst of Standards & Tech	245	0	145	100	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	1,348	0	1,323	25	0	0	0	0
Department of Defense, total	1,405,868	312,547	644,769	448,552	928	0	928	0
Department of the Army	219,326	6,574	185,118	27,634	0	0	0	0
Department of the Navy	218,961	156,775	6,692	55,494	0	0	0	0
Department of the Air Force	258,543	6,988	46,603	204,952	328	0	328	0
Defense agencies	697,218	142,210	405,156	149,852	600	0	600	0
Test & Evaluation, Deputy Under Secretary Defense	1,200	0	1,200	0	0	0	0	0
Director, Operational Test and Evaluation	10,620	0	0	10,620	0	0	0	0
Department of Energy	4,228,265	1,787,714	2,232,982	207,569	870,522	270,852	572,440	27,230
Dept of Health & Human Svcs, total	77,093	19,668	33,191	24,234	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	1,392	0	1,392	0	0	0	0	0
Health Resources and Svcs Admin	1,699	0	0	1,699	0	0	0	0
Nat'l Institutes of Health	74,002	19,668	31,799	22,535	0	0	0	0
Department of the Interior, total	3,595	3,595	0	0	0	0	0	0
Bureau of Mines	3,570	3,570	0	0	0	0	0	0
Minerals Management Svc	25	25	0	0	0	0	0	0
Department of Justice, total	500	500	0	0	0	0	0	0
Drug Enforcement Admin	500	500	0	0	0	0	0	0
Department of Transportation, total	26,210	8,581	0	17,629	0	0	0	0
Coast Guard	7,638	7,638	0	0	0	0	0	0
Federal Aviation Admin	17,579	0	0	17,579	0	0	0	0
Federal Highway Admin	943	943	0	0	0	0	0	0
Office of the Secretary	50	0	0	50	0	0	0	0
Department of the Treasury, total	384	0	384	0	0	0	0	0
Bureau of Engraving and Printing	68	0	68	0	0	0	0	0
Financial Crimes Enforcement Network	316	0	316	0	0	0	0	0
Other agencies:								
Agency for International Development	0	0	0	0	2,580	0	2,580	0
Environmental Protection Agency	100	0	100	0	0	0	0	0
Nat'l Aeronautics & Space Admin	774,766	0	772,826	1,940	81,170	0	81,170	0
Nat'l Science Foundation	125,663	753	124,553	357	11,700	0	11,700	0
Nuclear Regulatory Commission	77,357	43,991	21,109	12,257	0	0	0	0
US Arms Control & Disarmament Agency	400	100	50	250	0	0	0	0

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-12. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Research and development				R&D plant			
	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts
Total, all agencies	6,566,020	2,142,269	3,702,779	720,972	960,620	235,530	696,815	28,275
Departments:								
Department of Agriculture, total	30	30	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	30	30	0	0	0	0	0	0
Department of Commerce, total	270	0	145	125	0	0	0	0
Nat'l Inst of Standards & Tech	245	0	145	100	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	25	0	0	25	0	0	0	0
Department of Defense, total	1,319,523	314,529	557,773	447,221	650	0	650	0
Department of the Army	167,181	8,263	128,444	30,474	0	0	0	0
Department of the Navy	223,415	164,668	4,644	54,103	0	0	0	0
Department of the Air Force	268,083	4,819	50,987	212,277	0	0	0	0
Defense agencies	646,997	136,779	371,691	138,527	650	0	650	0
Test & Evaluation, Deputy Under Secretary Defense	2,007	0	2,007	0	0	0	0	0
Director, Operational Test and Evaluation	11,840	0	0	11,840	0	0	0	0
Department of Energy	4,177,607	1,759,339	2,202,501	215,767	883,211	235,530	619,406	28,275
Dept of Health & Human Svcs, total	81,527	20,801	35,240	25,486	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	1,484	0	1,484	0	0	0	0	0
Health Resources and Svcs Admin	1,699	0	0	1,699	0	0	0	0
Nat'l Institutes of Health	78,344	20,801	33,756	23,787	0	0	0	0
Department of the Interior, total	25	25	0	0	0	0	0	0
Minerals Management Svc	25	25	0	0	0	0	0	0
Department of Justice, total	500	500	0	0	0	0	0	0
Drug Enforcement Admin	500	500	0	0	0	0	0	0
Department of Transportation, total	16,264	1,446	0	14,818	0	0	0	0
Federal Aviation Admin	14,738	0	0	14,738	0	0	0	0
Federal Highway Admin	1,126	1,126	0	0	0	0	0	0
Office of the Secretary	80	0	0	80	0	0	0	0
Research & Special Programs Admin	320	320	0	0	0	0	0	0
Department of the Treasury, total	329	0	329	0	0	0	0	0
Financial Crimes Enforcement Network	329	0	329	0	0	0	0	0
Other agencies:								
Agency for International Development	0	0	0	0	2,289	0	2,289	0
Environmental Protection Agency	100	0	100	0	0	0	0	0
Nat'l Aeronautics & Space Admin	751,391	0	749,451	1,940	56,770	0	56,770	0
Nat'l Archives & Records Admin	100	0	100	0	0	0	0	0
Nat'l Science Foundation	136,190	773	134,992	425	17,700	0	17,700	0
Nuclear Regulatory Commission	81,989	44,726	22,148	15,115	0	0	0	0
US Arms Control & Disarmament Agency	175	100	0	75	0	0	0	0

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-13. Federal obligations for research and development to federally funded research and development centers, by individual FFRDC and agency: fiscal year 1991

[Dollars in thousands]

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aeronautics & Space Admin	National Science Foundation	Other
Total, all FFRDCs	6,351,555	270	1,395,634	3,948,353	61,904	738,282	112,338	94,774
FFRDCs admin by industrial firms	2,068,320	0	316,040	1,690,390	16,554	0	716	44,620
Bettis Atomic Power Lab	334,486	0	106,190	228,296	0	0	0	0
Energy Tech Engineering Cntr	16,270	0	0	16,270	0	0	0	0
Frederick Cancer R&D Cntr	14,444	0	0	0	14,444	0	0	0
Hanford Engineering Dev Lab	13,722	0	2,222	11,500	0	0	0	0
Idaho Nat'l Engineering Lab	175,143	0	1,132	156,225	0	0	225	17,561
Knolls Atomic Power Lab	317,818	0	43,792	274,026	0	0	0	0
Oak Ridge Nat'l Lab	309,620	0	32,217	261,360	2,110	0	491	13,442
Sandia Nat'l Lab	719,753	0	120,909	585,227	0	0	0	13,617
Savannah River Lab	167,064	0	9,578	157,486	0	0	0	0
FFRDCs admin by univs & colleges	3,603,818	145	637,260	2,071,670	28,203	736,342	111,305	18,893
Ames Lab	26,906	0	540	26,366	0	0	0	0
Argonne Nat'l Lab	254,080	0	11,137	235,912	1,658	130	1,653	3,590
Brookhaven Nat'l Lab	222,755	135	14,611	191,151	4,151	0	691	12,016
Continuous Electron Beam Accel Facil	23,366	0	0	23,366	0	0	0	0
E.O. Lawrence Berkeley Lab	146,705	0	1,760	130,652	12,785	1,304	204	0
E.O. Lawrence Livermore Nat'l Lab	815,470	0	211,664	599,770	1,714	990	7	1,325
Fermi Nat'l Scientific Lab	158,883	0	0	158,868	0	0	15	0
Inst for Advanced Technology	2,548	0	2,548	0	0	0	0	0
Jet Propulsion Lab	797,629	0	66,433	0	198	730,787	111	100
Lincoln Lab	199,104	0	199,104	0	0	0	0	0
Los Alamos Nat'l Lab	603,461	0	106,491	489,205	6,040	148	19	1,558
Nat'l Astronomy & Ionosphere Cntr	6,051	0	0	0	0	0	6,051	0
Nat'l Cntr for Atmospheric Research	49,315	0	79	0	0	2,983	46,178	75
Nat'l Optical Astronomy Obsrvty	25,740	0	0	0	0	0	25,740	0
Nat'l Radio Astronomy Obsrvty	30,636	0	0	0	0	0	30,636	0
Oak Ridge Associated Universities	15,942	10	497	14,511	695	0	0	229
Princeton Plasma Physics Lab	87,713	0	0	87,713	0	0	0	0
Software Engineering Inst	22,396	0	22,396	0	0	0	0	0
Stanford Linear Accelerator Cntr	115,118	0	0	114,156	962	0	0	0
FFRDCs admin by other nonprofit institutions 1/	679,417	125	442,334	186,293	17,147	1,940	317	31,261
Aerospace Corporation	97,701	0	95,567	194	0	1,808	132	0
Arroyo Cntr	22,789	0	22,789	0	0	0	0	0
C3 I Federal Contract Research Cntr	183,220	100	183,025	0	0	0	95	0
Cntr for Advanced Aviation Sys Dev	17,813	0	75	0	0	0	0	17,738
Cntr for Naval Analyses	48,121	0	48,121	0	0	0	0	0
Cntr for Nuclear Waste Reg Analyses	3,287	0	100	0	0	0	0	3,187
Inhalation Toxicology Research Inst	7,524	0	0	7,438	0	0	0	86
Inst for Defense Analyses	44,229	0	44,229	0	0	0	0	0
Logistics Management Inst	3,341	0	1,642	0	1,699	0	0	0
Nat'l Defense Research Inst	25,849	0	21,240	0	4,609	0	0	0
Nat'l Renewable Energy Research Lab	72,558	0	0	72,469	0	89	0	0
Pacific Northwest Labs	130,585	25	3,146	106,192	10,839	43	90	10,250
Project Air Force	22,400	0	22,400	0	0	0	0	0

1/ Other than universities and colleges

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-14. Federal obligations for R&D plant to federally funded research and development centers, by individual FFRDC and agency: fiscal year 1991

[Dollars in thousands]

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aeronautics & Space Admin	National Science Foundation	Other
Total, all FFRDCs	923,876	0	2,413	783,203	0	57,744	80,516	0
FFRDCs admin by industrial firms	279,638	0	1,915	277,723	0	0	0	0
Bettis Atomic Power Lab	36,535	0	0	36,535	0	0	0	0
Energy Tech Engineering Cntr	2,670	0	0	2,670	0	0	0	0
Hanford Engineering Dev Lab	15,291	0	0	15,291	0	0	0	0
Idaho Nat'l Engineering Lab	35,936	0	0	35,936	0	0	0	0
Knolls Atomic Power Lab	37,688	0	0	37,688	0	0	0	0
Oak Ridge Nat'l Lab	31,419	0	0	31,419	0	0	0	0
Sandia Nat'l Lab	89,704	0	1,915	87,789	0	0	0	0
Savannah River Lab	30,395	0	0	30,395	0	0	0	0
FFRDCs admin by univs & colleges	624,578	0	498	485,820	0	57,744	80,516	0
Ames Lab	3,139	0	0	3,139	0	0	0	0
Argonne Nat'l Lab	101,421	0	0	101,421	0	0	0	0
Brookhaven Nat'l Lab	48,651	0	0	48,651	0	0	0	0
Continuous Electron Beam Accel Facil	61,199	0	0	61,199	0	0	0	0
E.O. Lawrence Berkeley Lab	46,124	0	0	46,124	0	0	0	0
E.O. Lawrence Livermore Nat'l Lab	82,832	0	0	82,832	0	0	0	0
Fermi Nat'l Scientific Lab	53,162	0	0	53,162	0	0	0	0
Jet Propulsion Lab	57,744	0	0	0	0	57,744	0	0
Lincoln Lab	498	0	498	0	0	0	0	0
Los Alamos Nat'l Lab	59,203	0	0	59,203	0	0	0	0
Nat'l Astronomy & Ionosphere Cntr	3,925	0	0	0	0	0	3,925	0
Nat'l Cntr for Atmospheric Rsch	7,600	0	0	0	0	0	7,600	0
Nat'l Radio Astronomy Obsrvty	68,991	0	0	0	0	0	68,991	0
Oak Ridge Associated Universities	318	0	0	318	0	0	0	0
Princeton Plasma Physics Lab	2,598	0	0	2,598	0	0	0	0
Stanford Linear Accelerator Cntr	27,173	0	0	27,173	0	0	0	0
FFRDCs admin by other nonprofit institutions 1/	19,660	0	0	19,660	0	0	0	0
Inhalation Toxicology Research Inst	1,145	0	0	1,145	0	0	0	0
Nat'l Renewable Energy Research Lab	7,688	0	0	7,688	0	0	0	0
Pacific Northwest Labs	10,827	0	0	10,827	0	0	0	0

1/ Other than universities and colleges

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-15. Federal obligations for research, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	23,968,377	6,539,314	3,406,515	624,641	8,867,537	2,160,921	1,925,885	170,923	129,288	143,353
Departments:										
Department of Agriculture, total	1,175,465	765,592	6,197	2	383,896	0	10,670	0	3,363	5,745
Agricultural Cooperative Svc	2,814	2,812	0	0	2	0	0	0	0	0
Agricultural Marketing Svc 2/	3,716	2,131	0	0	225	0	0	0	1,360	0
Agricultural Research Svc	550,799	524,490	0	0	19,491	0	2,589	0	143	4,086
Cooperative State Research Svc	376,809	18,298	5,579	0	344,586	0	7,007	0	1,339	0
Economic Research Svc	54,370	52,612	0	0	1,758	0	0	0	0	0
Federal Grain Inspection Svc	650	377	0	0	273	0	0	0	0	0
Forest Svc	170,200	151,450	539	0	16,469	0	1,074	0	521	147
Human Nutrition Information Svc	9,899	9,341	79	0	479	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,244	2,979	0	2	263	0	0	0	0	0
Office of International Cooperation & Development	2,964	1,102	0	0	350	0	0	0	0	1,512
Department of Commerce, total	449,706	372,080	12,164	0	56,386	135	1,785	25	7,067	64
Bureau of the Census	4,766	2,558	0	0	2,208	0	0	0	0	0
Economic Development Admin	1,381	762	0	0	513	0	46	0	60	0
Nat'l Inst of Standards & Tech	124,349	113,115	4,189	0	5,327	135	1,577	0	0	6
Nat'l Oceanic & Atmospheric Admin	315,635	252,070	7,975	0	48,338	0	162	25	7,007	58
Nat'l Telecomm & Information Admin	3,575	3,575	0	0	0	0	0	0	0	0
Department of Defense, total	3,717,908	1,403,736	1,297,630	38,816	793,816	77,416	52,137	34,750	1	19,606
Department of the Army	860,504	549,791	188,062	2,553	87,399	7,328	14,917	1,112	1	9,341
Department of the Navy	874,000	414,200	169,353	14,739	253,711	5,692	10,808	790	0	4,707
Department of the Air Force	830,400	291,510	367,632	1,029	135,889	684	8,628	22,457	0	2,571
Defense agencies	1,153,004	148,235	572,583	20,495	316,817	63,712	17,784	10,391	0	2,987
Department of Education	131,666	8,287	6,771	0	85,945	0	28,884	0	1,676	100
Department of Energy	3,273,630	209,151	209,166	527,037	595,528	1,478,460	151,756	98,953	1,935	1,644
Dept of Health & Human Svcs, total	8,162,487	1,595,550	328,105	14,152	4,850,036	25,164	1,197,521	15,599	92,761	43,599
Admin on Aging 3/	2,854	104	0	0	882	0	1,793	0	75	0
Admin for Children and Families 3/	13,500	381	1,256	0	2,265	0	9,295	0	303	0
Agency for Health Care Policy & Research 4/	93,041	19,601	10,155	0	48,392	0	13,190	0	1,603	100
Alcohol, Drug Abuse, & Mental Health Admin	922,973	217,122	11,326	0	555,429	632	98,059	0	33,603	6,802
Centers for Disease Control	113,372	55,542	1,875	0	33,604	0	22,179	0	0	172
Food & Drug Admin	125,020	85,340	13,878	0	14,690	0	6,199	0	4,913	0
Health Care Financing Admin	69,075	229	16,376	0	10,700	0	36,555	0	5,104	111
Health Resources and Svcs Admin	11,040	3,960	0	0	5,381	0	0	1,699	0	0
Nat'l Institutes of Health	6,783,011	1,196,449	271,106	14,152	4,173,441	24,532	1,006,566	13,900	46,596	36,269
Office of Asst Secy for Health	9,614	9,614	0	0	0	0	0	0	0	0
Office of the Secretary	8,811	1,333	1,598	0	3,783	0	1,469	0	525	103
Social Security Admin	10,176	5,875	535	0	1,469	0	2,216	0	39	42
Dept of Housing & Urban Development	9,391	6,544	2,684	0	22	0	141	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-15. Federal obligations for research, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Interior, total	553,396	467,922	16,711	3,648	56,674	0	1,533	0	6,260	648
Bureau of Land Management	5,942	2,548	0	0	3,394	0	0	0	0	0
Bureau of Mines	98,992	69,557	12,365	3,558	11,062	0	0	0	2,450	0
Bureau of Reclamation	7,800	7,800	0	0	0	0	0	0	0	0
Geological Survey	338,361	304,522	4,042	0	24,519	0	1,378	0	3,810	90
Minerals Management Svc	2,686	1,279	219	90	435	0	105	0	0	558
Nat'l Park Svc	27,474	18,300	0	0	9,124	0	50	0	0	0
Office of the Secretary	100	15	85	0	0	0	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	1,041	1	0		1,040	0	0	0	0	0
US Fish & Wildlife Svc	71,000	63,900	0		7,100	0	0	0	0	0
Department of Justice, total	21,075	1,812	2,205	200	5,461	0	10,392	0	1,005	0
Bureau of Prisons 5/	1,900	1,400	100	0	0	0	0	0	400	0
Drug Enforcement Admin	900	100	600	200	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	360	0	0	0	0	0	0	0
Office of Justice Programs	17,875	272	1,145	0	5,461	0	10,392	0	605	0
Department of Labor, total	24,327	8,899	8,284	0	5,239	0	1,880	0	25	0
Bureau of Labor Statistics	7,500	2,500	0	0	5,000	0	0	0	0	0
Employment and Training Admin	6,600	2,830	2,245	0	0	0	1,500	0	25	0
Occupational Safety & Health Admin	2,603	392	2,211	0	0	0	0	0	0	0
Office of the Secretary	4,729	2,282	1,828	0	239	0	380	0	0	0
Pension Benefit Guaranty Corporation	355	355	0	0	0	0	0	0	0	0
Pension & Welfare Benefit Admin	2,540	540	2,000	0	0	0	0	0	0	0
Department of State	5,854	338	67	0	900	0	4,541	0	0	8
Department of Transportation, total	114,624	41,292	49,657	150	8,356	0	5,511	6,513	2,420	725
Coast Guard	6,384	4,385	1,299	0	700	0	0	0	0	0
Federal Aviation Admin	23,963	16,561	840	0	49	0	0	6,513	0	0
Federal Highway Admin	46,056	1,257	36,025	150	5,739	0	375	0	2,380	130
Federal Railroad Admin	13,193	6,706	2,334	0	618	0	3,535	0	0	0
Maritime Admin	1,713	993	470	0	250	0	0	0	0	0
Nat'l Highway Traffic Safety Admin	21,368	10,022	8,110	0	1,000	0	1,601	0	40	595
Office of the Secretary	586	82	504	0	0	0	0	0	0	0
Research & Special Programs Admin	1,361	1,286	75	0	0	0	0	0	0	0
Department of the Treasury, total	24,136	17,515	6,392	0	0	229	0	0	0	0
Bureau of Engraving and Printing	2,719	2,490	0	0	0	229	0	0	0	0
Internal Revenue Svc	17,521	11,709	5,812	0	0	0	0	0	0	0
Office of Protective Research	406	176	230	0	0	0	0	0	0	0
Office of Thrift Supervision 6/	2,990	2,990	0	0	0	0	0	0	0	0
United States Customs Svc	500	150	350	0	0	0	0	0	0	0
Department of Veterans Affairs	193,800	193,000	0	0	800	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-15. Federal obligations for research, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Advisory Commission on Intergovernmental Relations	1,663	1,663	0	0	0	0	0	0	0	0
Agency for International Development	357,371	10,912	19,196	0	52,392	0	220,584	0	0	54,287
Appalachian Regional Commission	742	100	332	0	20	0	0	0	290	0
Consumer Product Safety Commission	883	869	14	0	0	0	0	0	0	0
Environmental Protection Agency	353,139	139,101	126,208	0	56,055	75	23,483	0	8,217	0
Federal Communications Commission	1,442	1,442	0	0	0	0	0	0	0	0
Federal Trade Commission	957	957	0	0	0	0	0	0	0	0
International Trade Commission	9,885	9,885	0	0	0	0	0	0	0	0
Library of Congress	1,704	1,704	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	3,371,162	1,133,565	1,204,254	0	474,414	449,548	98,748	1,243	2,146	7,244
Nat'l Archives & Records Admin	611	511	0	0	0	100	0	0	0	0
Nat'l Science Foundation	1,785,223	12,975	102,806	716	1,435,505	111,305	112,296	317	2,122	7,181
Nuclear Regulatory Commission	108,800	19,919	7,451	39,920	5,421	18,439	1,625	13,523	0	2,502
Smithsonian Institution	97,999	97,999	0	0	0	0	0	0	0	0
Tennessee Valley Authority	18,841	15,794	0	0	649	0	2,398	0	0	0
US Arms Control & Disarmament Agency	390	100	221	0	19	50	0	0	0	0
United States Information Agency	100	100	0	0	0	0	0	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ Formerly listed as Federal Prison System

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	26,195,449	7,156,500	3,802,810	689,245	9,624,411	2,318,526	2,124,684	173,868	162,603	142,802
Departments:										
Department of Agriculture, total	1,272,416	823,860	8,927	30	422,289	0	11,016	0	2,881	3,413
Agricultural Cooperative Svc	3,518	3,298	0	0	220	0	0	0	0	0
Agricultural Marketing Svc 2/	4,074	2,824	0	0	0	0	0	0	1,250	0
Agricultural Research Svc	586,906	560,478	0	0	20,095	0	2,878	0	153	3,302
Cooperative State Research Svc	419,418	20,331	6,086	0	384,602	0	7,319	0	1,080	0
Economic Research Svc	58,720	57,020	0	0	1,700	0	0	0	0	0
Federal Grain Inspection Svc	1,036	766	0	0	270	0	0	0	0	0
Forest Svc	183,000	166,961	411	0	14,300	0	819	0	398	111
Human Nutrition Information Svc	10,788	7,728	2,430	0	630	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,423	3,208	0	30	185	0	0	0	0	0
Office of International Cooperation & Development	1,533	1,246	0	0	287	0	0	0	0	0
Department of Commerce, total	530,635	395,624	64,616	0	60,115	1,458	2,011	25	6,722	64
Bureau of the Census	4,024	3,024	0	0	1,000	0	0	0	0	0
Economic Development Admin	500	100	0	0	300	0	100	0	0	0
Nat'l Inst of Standards & Tech	167,533	119,670	40,733	0	5,176	135	1,813	0	0	6
Nat'l Oceanic & Atmospheric Admin	354,627	268,879	23,883	0	53,639	1,323	98	25	6,722	58
Nat'l Telecomm & Information Admin	3,951	3,951	0	0	0	0	0	0	0	0
Department of Defense, total	4,097,993	1,474,047	1,465,768	31,540	956,077	69,295	73,155	12,293	1	15,817
Department of the Army	880,739	574,940	166,025	2,789	86,606	23,931	21,744	635	1	4,068
Department of the Navy	895,000	414,286	179,774	15,175	260,602	5,577	13,972	756	0	4,858
Department of the Air Force	804,442	296,472	367,984	116	126,048	618	8,410	2,263	0	2,531
Defense agencies	1,517,812	188,349	751,985	13,460	482,821	39,169	29,029	8,639	0	4,360
Department of Education	149,589	9,040	8,858	0	95,992	0	34,303	0	1,296	100
Department of Energy	3,599,373	282,843	248,650	589,848	608,921	1,613,630	132,209	118,168	3,185	1,919
Dept of Health & Human Svcs, total	8,899,914	1,816,497	371,375	16,794	5,119,118	28,928	1,364,125	21,905	113,036	48,136
Admin on Aging 3/	2,860	110	0	0	1,400	0	1,200	0	150	0
Admin for Children and Families 3/	14,400	467	1,464	0	2,080	0	9,918	0	471	0
Agency for Health Care Policy & Research 4/	97,836	23,442	6,721	0	47,670	0	18,293	0	1,610	100
Alcohol, Drug Abuse, & Mental Health Admin	983,103	234,346	12,096	0	592,223	696	102,352	0	35,527	5,863
Centers for Disease Control	117,400	58,872	1,875	0	33,604	0	22,849	0	0	200
Food & Drug Admin	137,706	93,991	15,288	0	16,185	0	6,830	0	5,412	0
Health Care Financing Admin	78,380	231	17,171	0	10,496	0	37,230	0	13,137	115
Health Resources and Svcs Admin	11,179	4,249	0	0	5,231	0	0	1,699	0	0
Nat'l Institutes of Health	7,413,400	1,377,946	311,591	16,794	4,408,143	28,232	1,155,027	20,206	53,653	41,808
Office of Asst Secy for Health	7,930	7,930	0	0	0	0	0	0	0	0
Office of the Secretary	5,012	890	1,086	0	1,038	0	1,387	0	611	0
Social Security Admin	30,708	14,023	4,083	0	1,048	0	9,039	0	2,465	50
Dept of Housing & Urban Development	10,366	5,416	3,149	0	374	0	1,225	0	202	0

See explanatory information, if any, and SOURCE at end of table.

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Interior, total	566,725	496,322	4,550	3,595	54,014	0	1,718	0	4,366	2,160
Bureau of Land Management	6,286	2,529	0	0	3,757	0	0	0	0	0
Bureau of Mines	102,930	88,393	805	3,570	9,934	0	0	0	228	0
Bureau of Reclamation	10,700	10,160	0	0	315	0	225	0	0	0
Geological Survey	344,670	312,850	3,292	0	23,048	0	1,293	0	4,138	49
Minerals Management Svc	3,685	939	303	25	307	0	0	0	0	2,111
Nat'l Park Svc	29,000	19,800	0	0	9,000	0	200	0	0	0
Office of the Secretary	200	50	150	0	0	0	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	254	1	0	0	253	0	0	0	0	0
US Fish & Wildlife Svc	69,000	61,600	0	0	7,400	0	0	0	0	0
Department of Justice, total	21,555	2,240	1,510	100	4,785	0	11,620	0	1,300	0
Bureau of Prisons 5/	2,000	1,400	100	0	0	0	0	0	500	0
Drug Enforcement Admin	300	200	0	100	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	360	0	0	0	0	0	0	0
Office of Justice Programs	18,855	600	1,050	0	4,785	0	11,620	0	800	0
Department of Labor, total	25,242	13,817	8,705	0	1,378	0	1,316	0	26	0
Bureau of Labor Statistics	7,600	7,600	0	0	0	0	0	0	0	0
Employment and Training Admin	6,800	2,316	2,214	0	1,178	0	1,066	0	26	0
Occupational Safety & Health Admin	3,219	404	2,815	0	0	0	0	0	0	0
Office of the Secretary	4,691	2,715	1,526	0	200	0	250	0	0	0
Pension Benefit Guaranty Corporation	472	222	250	0	0	0	0	0	0	0
Pension & Welfare Benefit Admin	2,460	560	1,900	0	0	0	0	0	0	0
Department of State	5,300	351	130	0	0	0	4,819	0	0	0
Department of Transportation, total	161,614	42,862	81,384	2,494	12,185	0	7,830	7,411	6,396	1,052
Coast Guard	7,188	4,937	0	1,551	700	0	0	0	0	0
Federal Aviation Admin	33,793	15,107	11,300	0	0	0	0	7,386	0	0
Federal Highway Admin	66,729	817	51,863	943	9,009	0	449	0	3,296	352
Federal Railroad Admin	24,227	9,300	6,942	0	176	0	4,809	0	3,000	0
Maritime Admin	1,751	1,086	565	0	100	0	0	0	0	0
Nat'l Highway Traffic Safety Admin	25,774	10,310	10,092	0	2,000	0	2,572	0	100	700
Office of the Secretary	740	93	622	0	0	0	0	25	0	0
Research & Special Programs Admin	1,412	1,212	0	0	200	0	0	0	0	0
Department of the Treasury, total	24,891	18,541	6,282	0	0	68	0	0	0	0
Bureau of Engraving and Printing	3,565	3,497	0	0	0	68	0	0	0	0
Internal Revenue Svc	17,521	11,709	5,812	0	0	0	0	0	0	0
Office of Protective Research	532	212	320	0	0	0	0	0	0	0
Office of Thrift Supervision 6/	3,023	3,023	0	0	0	0	0	0	0	0
United States Customs Svc	250	100	150	0	0	0	0	0	0	0
Department of Veterans Affairs	213,000	212,200	0	0	800	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Advisory Commission on Intergovernmental Relations	1,510	1,510	0	0	0	0	0	0	0	0
Agency for International Development	334,711	9,216	15,231	0	36,726	0	221,026	0	0	52,512
Appalachian Regional Commission	1,900	35	1,759	0	56	0	0	0	50	0
Consumer Product Safety Commission	818	765	53	0	0	0	0	0	0	0
Environmental Protection Agency	415,210	100,714	161,334	0	109,442	100	25,875	0	17,745	0
Federal Communications Commission	1,594	1,594	0	0	0	0	0	0	0	0
Federal Trade Commission	528	528	0	0	0	0	0	0	0	0
International Trade Commission	11,720	11,720	0	0	0	0	0	0	0	0
Library of Congress	2,025	2,025	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	3,664,084	1,277,799	1,247,483	0	561,768	459,335	107,146	1,202	2,155	7,196
Nat'l Archives & Records Admin	260	260	0	0	0	0	0	0	0	0
Nat'l Science Foundation	1,936,462	12,882	92,570	753	1,573,972	124,553	120,463	357	3,242	7,670
Nuclear Regulatory Commission	118,898	21,563	9,158	43,991	5,681	21,109	2,376	12,257	0	2,763
Smithsonian Institution	100,000	100,000	0	0	0	0	0	0	0	0
Tennessee Valley Authority	24,108	20,989	0	0	668	0	2,451	0	0	0
US Arms Control & Disarmament Agency	2,058	290	1,318	100	50	50	0	250	0	0
United States Information Agency	950	950	0	0	0	0	0	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ Formerly listed as Federal Prison System

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-17. Federal obligations for research, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	27,899,305	7,840,702	4,058,398	678,082	10,252,514	2,384,535	2,203,959	179,860	153,797	147,458
Departments:										
Department of Agriculture, total	1,271,820	836,311	9,242	30	413,910	0	6,255	0	2,654	3,418
Agricultural Cooperative Svc	3,097	3,097	0	0	0	0	0	0	0	0
Agricultural Marketing Svc 2/	3,729	2,710	0	0	0	0	0	0	1,019	0
Agricultural Research Svc	611,137	583,585	0	0	20,981	0	3,104	0	165	3,302
Cooperative State Research Svc	404,273	19,758	5,814	0	375,348	0	2,297	0	1,056	0
Economic Research Svc	60,372	58,672	0	0	1,700	0	0	0	0	0
Federal Grain Inspection Svc	1,139	783	0	0	356	0	0	0	0	0
Forest Svc	172,500	155,788	428	0	14,900	0	854	0	414	116
Human Nutrition Information Svc	10,788	7,588	3,000	0	200	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,464	3,249	0	30	185	0	0	0	0	0
Office of International Cooperation & Development	1,321	1,081	0	0	240	0	0	0	0	0
Department of Commerce, total	533,843	441,321	40,612	0	45,523	135	1,582	25	4,581	64
Bureau of the Census	3,793	2,993	0	0	800	0	0	0	0	0
Nat'l Inst of Standards & Tech	181,653	142,116	32,354	0	5,558	135	1,484	0	0	6
Nat'l Oceanic & Atmospheric Admin	342,121	289,936	8,258	0	39,165	0	98	25	4,581	58
Nat'l Telecomm & Information Admin	6,276	6,276	0	0	0	0	0	0	0	0
Department of Defense, total	4,526,832	1,734,597	1,486,510	21,779	1,131,144	66,092	60,673	9,512	1	16,524
Department of the Army	765,372	463,312	183,338	847	88,732	9,678	14,831	400	1	4,233
Department of the Navy	1,090,000	515,844	218,741	15,624	313,298	3,029	17,575	872	0	5,017
Department of the Air Force	1,014,691	376,618	482,057	151	142,183	379	10,238	76	0	2,989
Defense agencies	1,398,697	212,527	571,414	5,157	532,952	53,006	14,792	8,164	0	685
Health Affairs, Assistant Secretary of Defense for	258,072	166,296	30,960	0	53,979	0	3,237	0	0	3,600
Department of Education	146,512	9,219	7,420	0	100,915	0	27,558	0	1,300	100
Department of Energy	3,620,919	318,883	230,516	591,543	542,637	1,654,561	149,381	129,622	2,400	1,376
Dept of Health & Human Svcs, total	9,308,781	1,915,655	392,930	17,880	5,370,269	30,871	1,398,407	23,119	108,627	51,023
Admin on Aging 3/	2,860	110	0	0	1,200	0	1,400	0	150	0
Admin for Children and Families 3/	16,000	415	1,338	0	2,099	0	11,707	0	441	0
Agency for Health Care Policy & Research 4/	67,948	14,376	7,415	0	35,339	0	9,644	0	1,174	0
Alcohol, Drug Abuse, & Mental Health Admin	1,041,857	254,600	12,792	0	622,982	742	107,139	0	37,442	6,160
Centers for Disease Control	118,325	59,505	1,000	0	33,604	0	23,991	0	0	225
Food & Drug Admin	143,300	97,809	15,909	0	16,842	0	7,108	0	5,632	0
Health Care Financing Admin	36,000	216	17,352	0	10,584	0	4,680	0	3,168	0
Health Resources and Svcs Admin	11,067	4,137	0	0	5,231	0	0	1,699	0	0
Nat'l Institutes of Health	7,843,500	1,468,734	331,849	17,880	4,640,283	30,129	1,231,424	21,420	57,198	44,583
Office of Asst Secy for Health	2,828	2,828	0	0	0	0	0	0	0	0
Office of the Secretary	5,224	1,000	1,000	0	1,500	0	1,224	0	500	0
Social Security Admin	19,872	11,925	4,275	0	605	0	90	0	2,922	55
Dept of Housing & Urban Development	13,206	8,218	4,216	0	101	0	671	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-17. Federal obligations for research, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Interior, total	506,206	458,898	4,370	25	36,745	0	1,150	0	3,000	2,018
Bureau of Land Management	10,991	4,667	0	0	6,324	0	0	0	0	0
Bureau of Mines	70,440	70,440	0	0	0	0	0	0	0	0
Bureau of Reclamation	8,300	7,600	0	0	700	0	0	0	0	0
Geological Survey	313,897	295,708	2,267	0	12,022	0	900	0	3,000	0
Minerals Management Svc	3,678	932	303	25	400	0	0	0	0	2,018
Nat'l Park Svc	29,500	20,250	0	0	9,000	0	250	0	0	0
Office of the Secretary	2,000	200	1,800	0	0	0	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	400	1	0	0	399	0	0	0	0	0
US Fish & Wildlife Svc	67,000	59,100	0	0	7,900	0	0	0	0	0
Department of Justice, total	15,655	2,390	1,575	100	3,200	0	6,875	0	1,515	0
Bureau of Prisons 5/	2,000	1,400	100	0	0	0	0	0	500	0
Drug Enforcement Admin	300	200	0	100	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	360	0	0	0	0	0	0	0
Office of Justice Programs	12,955	750	1,115	0	3,200	0	6,875	0	1,015	0
Department of Labor, total	27,595	12,906	10,828	0	1,728	0	2,058	0	75	0
Bureau of Labor Statistics	8,400	8,400	0	0	0	0	0	0	0	0
Employment and Training Admin	4,000	786	1,353	0	1,178	0	608	0	75	0
Occupational Safety & Health Admin	3,219	404	2,815	0	0	0	0	0	0	0
Office of the Secretary	9,081	2,655	4,426	0	550	0	1,450	0	0	0
Pension Benefit Guaranty Corporation	535	80	455	0	0	0	0	0	0	0
Pension & Welfare Benefit Admin	2,360	581	1,779	0	0	0	0	0	0	0
Department of State	5,314	365	130	0	0	0	4,819	0	0	0
Department of Transportation, total	210,243	85,489	90,530	1,126	18,664	0	8,197	783	4,034	1,420
Coast Guard	7,375	4,948	1,727	0	700	0	0	0	0	0
Federal Aviation Admin	64,543	54,630	3,831	0	5,339	0	0	743	0	0
Federal Highway Admin	77,315	1,583	60,002	1,126	10,250	0	0	0	3,934	420
Federal Railroad Admin	21,197	9,539	6,359	0	75	0	5,224	0	0	0
Maritime Admin	1,734	984	650	0	100	0	0	0	0	0
Nat'l Highway Traffic Safety Admin	35,778	12,372	17,333	0	2,000	0	2,973	0	100	1,000
Office of the Secretary	763	95	628	0	0	0	0	40	0	0
Research & Special Programs Admin	1,538	1,338	0	0	200	0	0	0	0	0
Department of the Treasury, total	23,241	16,609	6,632	0	0	0	0	0	0	0
Bureau of Engraving and Printing	1,325	1,325	0	0	0	0	0	0	0	0
Internal Revenue Svc	17,521	11,709	5,812	0	0	0	0	0	0	0
Office of Protective Research	572	252	320	0	0	0	0	0	0	0
Office of Thrift Supervision 6/	3,173	3,173	0	0	0	0	0	0	0	0
United States Customs Svc	650	150	500	0	0	0	0	0	0	0
Department of Veterans Affairs	219,000	218,200	0	0	800	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-17. Federal obligations for research, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Other agencies:										
Advisory Commission on Intergovernmental Relations	1,481	1,481	0	0	0	0	0	0	0	0
Agency for International Development	347,119	8,177	13,818	0	32,028	0	240,239	0	0	52,857
Appalachian Regional Commission	900	100	600	0	50	0	0	0	150	0
Consumer Product Safety Commission	1,090	875	215	0	0	0	0	0	0	0
Environmental Protection Agency	435,248	104,977	172,863	0	111,317	100	27,138	0	18,853	0
Federal Communications Commission	1,585	1,585	0	0	0	0	0	0	0	0
Federal Trade Commission	548	548	0	0	0	0	0	0	0	0
International Trade Commission	12,533	12,533	0	0	0	0	0	0	0	0
Library of Congress	2,033	2,033	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	4,163,234	1,484,944	1,470,257	0	599,989	475,536	121,743	1,184	2,233	7,348
Nat'l Archives & Records Admin	260	160	0	0	0	100	0	0	0	0
Nat'l Science Foundation	2,246,933	15,563	101,935	773	1,837,562	134,992	142,914	425	4,374	8,395
Nuclear Regulatory Commission	127,720	22,555	12,599	44,726	5,857	22,148	1,805	15,115	0	2,915
Smithsonian Institution	118,000	118,000	0	0	0	0	0	0	0	0
Tennessee Valley Authority	9,854	7,310	0	0	50	0	2,494	0	0	0
US Arms Control & Disarmament Agency	1,000	200	600	100	25	0	0	75	0	0
United States Information Agency	600	600	0	0	0	0	0	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ Formerly listed as Federal Prison System

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-18. Federal obligations for research, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Field of science and engineering	1991	Estimates	
		1992	1993
Total, all fields	23,968,377	26,195,449	27,899,305
Life sciences, total	9,621,981	10,588,803	11,338,202
Biological (excl environmental)	4,411,944	4,815,705	5,124,606
Environmental biology	459,747	497,139	508,959
Agricultural	726,180	770,488	780,988
Medical	3,460,299	3,883,668	4,080,658
Life sciences, n.e.c	563,811	621,803	842,991
Psychology, total	482,400	521,251	570,594
Biological aspects	140,369	152,741	166,352
Social aspects	198,432	208,221	231,639
Psychological sciences, n.e.c.	143,599	160,289	172,603
Physical sciences, total	4,235,336	4,533,696	4,789,854
Astronomy	631,657	707,216	791,887
Chemistry	828,420	909,419	950,868
Physics	2,460,930	2,583,622	2,685,798
Physical sciences, n.e.c.	314,329	333,439	361,303
Environmental sciences, total	2,149,783	2,359,758	2,503,218
Atmospheric	802,700	876,310	965,060
Geological	728,749	788,174	794,286
Oceanography	398,579	429,216	475,979
Environmental sciences, n.e.c.	219,755	266,058	267,893
Mathematics & comp sciences, total	903,705	1,153,879	1,212,310
Mathematics	227,616	269,820	293,540
Computer sciences	584,941	778,185	811,859
Mathematics & computer sciences, n.e.c.	91,148	105,874	106,911
Engineering, total	4,944,471	5,487,711	5,935,286
Aeronautical	1,016,232	1,167,023	1,367,650
Astronautical	653,094	659,193	771,255
Chemical	304,303	350,393	309,302
Civil	304,987	352,000	387,296
Electrical	729,905	759,920	837,639
Mechanical	335,514	342,570	394,905
Metallurgy & materials	709,905	752,683	693,188
Engineering, n.e.c.	890,531	1,103,929	1,174,051
Social sciences, total	727,290	790,181	717,710
Anthropology	15,982	16,306	18,717
Economics	187,423	197,257	188,682
Political science	17,022	18,771	17,562
Sociology	183,979	191,888	168,509
Social sciences, n.e.c.	322,884	365,959	324,240
Other sciences, n.e.c.	903,411	760,170	832,131

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-19. Federal obligations for research, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	23,968,377	9,621,981	482,400	4,235,336	2,149,783	903,705	4,944,471	727,290	903,411
Departments:									
Department of Agriculture, total	1,175,465	914,171	323	80,439	15,680	13,358	43,527	107,967	0
Agricultural Cooperative Svc	2,814	0	0	0	0	0	0	2,814	0
Agricultural Marketing Svc 1/	3,716	3,716	0	0	0	0	0	0	0
Agricultural Research Svc	550,799	489,261	0	49,588	3,380	1,587	6,983	0	0
Cooperative State Research Svc	376,809	297,936	0	18,528	845	0	19,644	39,856	0
Economic Research Svc	54,370	0	0	0	0	0	0	54,370	0
Federal Grain Inspection Svc	650	650	0	0	0	0	0	0	0
Forest Svc	170,200	109,745	323	12,323	11,455	8,527	16,900	10,927	0
Human Nutrition Information Svc	9,899	9,899	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,244	0	0	0	0	3,244	0	0	0
Office of International Cooperation & Development	2,964	2,964	0	0	0	0	0	0	0
Department of Commerce, total	449,706	68,242	838	69,000	184,865	28,344	65,562	12,050	20,805
Bureau of the Census	4,766	0	666	0	0	3,445	0	597	58
Economic Development Admin	1,381	0	0	0	0	0	0	1,381	0
Nat'l Inst of Standards & Tech	124,349	0	0	53,595	461	14,516	55,514	263	0
Nat'l Oceanic & Atmospheric Admin	315,635	68,242	172	15,405	184,404	10,383	6,473	9,809	20,747
Nat'l Telecomm & Information Admin	3,575	0	0	0	0	0	3,575	0	0
Department of Defense, total	3,717,908	304,812	97,328	574,706	262,666	380,536	1,938,019	2,598	157,243
Department of the Army	860,504	165,538	40,505	119,152	25,442	48,958	430,275	1,774	28,860
Department of the Navy	874,000	44,998	30,301	206,100	126,471	55,019	403,356	0	7,755
Department of the Air Force	830,400	66,781	22,889	104,420	64,619	51,138	498,153	0	22,400
Defense agencies	1,153,004	27,495	3,633	145,034	46,134	225,421	606,235	824	98,228
Department of Education	131,666	16,883	4,961	0	0	1,804	5,412	102,606	0
Department of Energy	3,273,630	285,359	0	1,837,775	238,469	142,703	723,603	0	45,721
Dept of Health & Human Svcs, total	8,162,487	6,805,987	344,105	142,276	0	18,225	76,330	318,881	456,683
Admin on Aging 2/	2,854	0	0	0	0	0	0	2,854	0
Admin for Children and Families 2/	13,500	0	0	0	0	0	0	13,500	0
Agency for Health Care Policy & Research 3/	93,041	0	0	0	0	0	0	93,041	0
Alcohol, Drug Abuse, & Mental Health Admin	922,973	554,655	236,515	11,620	0	2,084	674	89,678	27,747
Centers for Disease Control	113,372	113,372	0	0	0	0	0	0	0
Food & Drug Admin	125,020	125,020	0	0	0	0	0	0	0
Health Care Financing Admin	69,075	0	0	0	0	0	0	69,075	0
Health Resources and Svcs Admin	11,040	11,040	0	0	0	0	0	0	0
Nat'l Institutes of Health	6,783,011	5,992,286	107,590	130,656	0	16,141	75,656	31,746	428,936
Office of Asst Secy for Health	9,614	9,614	0	0	0	0	0	0	0
Office of the Secretary	8,811	0	0	0	0	0	0	8,811	0
Social Security Admin	10,176	0	0	0	0	0	0	10,176	0
Dept of Housing & Urban Development	9,391	0	0	0	187	199	135	6,578	2,292

See explanatory information, if any, and SOURCE at end of table.

Table C-19. Federal obligations for research, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Department of the Interior, total	553,396	100,879	0	35,677	300,081	15,031	97,462	4,211	55
Bureau of Land Management	5,942	4,845	0	0	1,097	0	0	0	0
Bureau of Mines	98,992	0	0	0	16,195	0	82,797	0	0
Bureau of Reclamation	7,800	1,882	0	2,000	239	0	3,624	0	55
Geological Survey	338,361	2,063	0	33,677	279,084	14,681	8,355	501	0
Minerals Management Svc	2,686	0	0	0	0	0	2,686	0	0
Nat'l Park Svc	27,474	20,600	0	0	2,814	350	0	3,710	0
Office of the Secretary	100	0	0	0	100	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	1,041	489	0	0	552	0	0	0	0
US Fish & Wildlife Svc	71,000	71,000	0	0	0	0	0	0	0
Department of Justice, total	21,075	442	863	0	0	1,050	1,300	14,529	2,891
Bureau of Prisons 4/	1,900	0	400	0	0	0	0	1,500	0
Drug Enforcement Admin	900	0	0	0	0	0	900	0	0
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	17,875	442	463	0	0	1,050	0	13,029	2,891
Department of Labor, total	24,327	0	0	0	0	0	0	24,327	0
Bureau of Labor Statistics	7,500	0	0	0	0	0	0	7,500	0
Employment and Training Admin	6,600	0	0	0	0	0	0	6,600	0
Occupational Safety & Health Admin	2,603	0	0	0	0	0	0	2,603	0
Office of the Secretary	4,729	0	0	0	0	0	0	4,729	0
Pension Benefit Guaranty Corporation	355	0	0	0	0	0	0	355	0
Pension & Welfare Benefit Admin	2,540	0	0	0	0	0	0	2,540	0
Department of State	5,854	0	0	0	0	0	0	5,854	0
Department of Transportation, total	114,624	4,160	2,658	2,788	2,421	16,327	78,932	6,619	719
Coast Guard	6,384	0	557	0	803	1,703	3,321	0	0
Federal Aviation Admin	23,963	2,505	2,101	0	0	8,971	10,386	0	0
Federal Highway Admin	46,056	0	0	1,796	1,618	2,238	39,738	666	0
Federal Railroad Admin	13,193	0	0	792	0	0	9,763	2,638	0
Maritime Admin	1,713	0	0	0	0	0	1,713	0	0
Nat'l Highway Traffic Safety Admin	21,368	1,655	0	0	0	2,980	13,454	3,279	0
Office of the Secretary	586	0	0	200	0	0	350	36	0
Research & Special Programs Admin	1,361	0	0	0	0	435	207	0	719
Department of the Treasury, total	24,136	140	266	3,219	0	11,178	0	9,333	0
Bureau of Engraving and Printing	2,719	0	0	2,719	0	0	0	0	0
Internal Revenue Svc	17,521	0	0	0	0	11,178	0	6,343	0
Office of Protective Research	406	140	266	0	0	0	0	0	0
Office of Thrift Supervision 5/	2,990	0	0	0	0	0	0	2,990	0
United States Customs Svc	500	0	0	500	0	0	0	0	0
Department of Veterans Affairs	193,800	177,092	16,544	0	0	0	164	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-19. Federal obligations for research, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Advisory Commission on Intergovernmental Relations	1,663	0	0	0	0	0	0	1,663	0
Agency for International Development	357,371	304,539	0	0	0	4,112	906	24,342	23,472
Appalachian Regional Commission	742	0	0	0	0	0	0	742	0
Consumer Product Safety Commission	883	0	0	178	0	0	705	0	0
Environmental Protection Agency	353,139	156,122	1,235	52,119	76,420	4,480	60,922	0	1,841
Federal Communications Commission	1,442	0	0	0	0	75	928	439	0
Federal Trade Commission	957	0	0	0	0	0	0	957	0
International Trade Commission	9,885	0	0	0	0	0	0	9,885	0
Library of Congress	1,704	0	0	0	0	0	0	0	1,704
Nat'l Aeronautics & Space Admin	3,371,162	174,544	11,366	939,726	667,739	79,932	1,477,950	126	19,779
Nat'l Archives & Records Admin	611	0	0	541	0	70	0	0	0
Nat'l Science Foundation	1,785,223	269,308	1,913	467,150	393,317	186,281	262,669	40,366	164,219
Nuclear Regulatory Commission	108,800	0	0	0	0	0	108,800	0	0
Smithsonian Institution	97,999	35,484	0	22,786	7,188	0	0	32,541	0
Tennessee Valley Authority	18,841	3,817	0	6,956	750	0	850	481	5,987
US Arms Control & Disarmament Agency	390	0	0	0	0	0	195	195	0
United States Information Agency	100	0	0	0	0	0	100	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	26,195,449	10,588,803	521,251	4,533,696	2,359,758	1,153,879	5,487,711	790,181	760,170
Departments:									
Department of Agriculture, total	1,272,416	993,152	347	86,714	16,563	14,160	45,921	115,559	0
Agricultural Cooperative Svc	3,518	0	0	0	0	0	0	3,518	0
Agricultural Marketing Svc 1/	4,074	4,074	0	0	0	0	0	0	0
Agricultural Research Svc	586,906	522,152	0	53,462	3,369	1,569	6,354	0	0
Cooperative State Research Svc	419,418	335,571	0	20,003	878	0	21,395	41,571	0
Economic Research Svc	58,720	0	0	0	0	0	0	58,720	0
Federal Grain Inspection Svc	1,036	1,036	0	0	0	0	0	0	0
Forest Svc	183,000	117,998	347	13,249	12,316	9,168	18,172	11,750	0
Human Nutrition Information Svc	10,788	10,788	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,423	0	0	0	0	3,423	0	0	0
Office of International Cooperation & Development	1,533	1,533	0	0	0	0	0	0	0
Department of Commerce, total	530,635	85,872	640	83,309	201,127	36,374	88,049	12,151	23,113
Bureau of the Census	4,024	0	483	0	0	2,771	0	703	67
Economic Development Admin	500	0	0	0	0	0	0	500	0
Nat'l Inst of Standards & Tech	167,533	0	0	67,303	467	22,210	77,312	241	0
Nat'l Oceanic & Atmospheric Admin	354,627	85,872	157	16,006	200,660	11,393	6,786	10,707	23,046
Nat'l Telecomm & Information Admin	3,951	0	0	0	0	0	3,951	0	0
Department of Defense, total	4,097,993	333,759	95,366	599,028	281,812	546,200	2,088,605	1,493	151,730
Department of the Army	880,739	170,442	36,317	124,647	33,266	49,891	447,619	1,493	17,064
Department of the Navy	895,000	46,387	30,663	208,171	132,415	55,257	414,766	0	7,341
Department of the Air Force	804,442	64,990	23,186	104,791	63,700	50,101	497,674	0	0
Defense agencies	1,517,812	51,940	5,200	161,419	52,431	390,951	728,546	0	127,325
Department of Education	149,589	19,751	5,784	0	0	1,578	6,310	116,166	0
Department of Energy	3,599,373	257,383	0	1,931,611	280,610	195,221	865,127	0	69,421
Dept of Health & Human Svcs, total	8,899,914	7,611,421	377,648	151,899	0	20,873	87,960	357,531	292,582
Admin on Aging 2/	2,860	0	0	0	0	0	0	2,860	0
Admin for Children and Families 2/	14,400	0	0	0	0	0	0	14,400	0
Agency for Health Care Policy & Research 3/	97,836	0	0	0	0	0	0	97,836	0
Alcohol, Drug Abuse, & Mental Health Admin	983,103	594,705	253,563	11,845	0	2,262	744	91,680	28,304
Centers for Disease Control	117,400	117,400	0	0	0	0	0	0	0
Food & Drug Admin	137,706	137,706	0	0	0	0	0	0	0
Health Care Financing Admin	78,380	0	0	0	0	0	0	78,380	0
Health Resources and Svcs Admin	11,179	11,179	0	0	0	0	0	0	0
Nat'l Institutes of Health	7,413,400	6,742,501	124,0F5	140,054	0	18,611	87,216	36,655	264,278
Office of Asst Secy for Health	7,930	7,930	0	0	0	0	0	0	0
Office of the Secretary	5,012	0	0	0	0	0	0	5,012	0
Social Security Admin	30,708	0	0	0	0	0	0	30,708	0
Dept of Housing & Urban Development	10,366	0	0	0	369	90	581	7,251	2,075

See explanatory information, if any, and SOURCE at end of table.

Table C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Department of the Interior, total	566,725	101,692	0	37,065	306,092	15,351	102,466	4,059	0
Bureau of Land Management	6,286	4,605	0	0	1,572	0	0	109	0
Bureau of Mines	102,930	0	0	0	18,051	0	84,879	0	0
Bureau of Reclamation	10,700	3,220	0	2,000	0	0	5,480	0	0
Geological Survey	344,670	2,249	0	35,065	283,433	15,051	8,422	450	0
Minerals Management Svc	3,685	0	0	0	0	0	3,685	0	0
Nat'l Park Svc	29,000	22,500	0	0	2,700	300	0	3,500	0
Office of the Secretary	200	0	0	0	200	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	254	118	0	0	136	0	0	0	0
US Fish & Wildlife Svc	69,000	69,000	0	0	0	0	0	0	0
Department of Justice, total	21,555	700	2,350	0	0	800	700	13,902	3,103
Bureau of Prisons 4/	2,000	0	400	0	0	0	0	1,600	0
Drug Enforcement Admin	300	0	0	0	0	0	300	0	0
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	18,855	700	1,950	0	0	800	0	12,302	3,103
Department of Labor, total	25,242	0	0	0	0	0	0	25,242	0
Bureau of Labor Statistics	7,600	0	0	0	0	0	0	7,600	0
Employment and Training Admin	6,800	0	0	0	0	0	0	6,800	0
Occupational Safety & Health Admin	3,219	0	0	0	0	0	0	3,219	0
Office of the Secretary	4,691	0	0	0	0	0	0	4,691	0
Pension Benefit Guaranty Corporation	472	0	0	0	0	0	0	472	0
Pension & Welfare Benefit Admin	2,460	0	0	0	0	0	0	2,460	0
Department of State	5,300	0	0	0	0	0	0	5,300	0
Department of Transportation, total	161,614	6,136	5,717	2,846	8,791	19,193	110,017	8,795	119
Coast Guard	7,188	0	810	0	822	1,823	3,733	0	0
Federal Aviation Admin	33,793	3,481	4,907	0	0	7,943	17,462	0	0
Federal Highway Admin	66,729	0	0	1,127	7,754	5,634	51,816	398	0
Federal Railroad Admin	24,227	0	0	1,454	0	0	17,928	4,845	0
Maritime Admin	1,751	0	0	0	50	0	1,701	0	0
Nat'l Highway Traffic Safety Admin	25,774	2,655	0	0	0	3,278	16,889	2,952	0
Office of the Secretary	740	0	0	265	0	0	400	75	0
Research & Special Programs Admin	1,412	0	0	0	165	515	88	525	119
Department of the Treasury, total	24,891	160	372	3,774	0	11,178	41	9,366	0
Bureau of Engraving and Printing	3,565	0	0	3,524	0	0	41	0	0
Internal Revenue Svc	17,521	0	0	0	0	11,178	0	6,343	0
Office of Protective Research	532	160	372	0	0	0	0	0	0
Office of Thrift Supervision 5/	3,023	0	0	0	0	0	0	3,023	0
United States Customs Svc	250	0	0	250	0	0	0	0	0
Department of Veterans Affairs	213,000	195,224	17,535	0	0	0	241	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Advisory Commission on Intergovernmental Relations	1,510	0	0	0	0	0	0	1,510	0
Agency for International Development	334,711	291,543	0	0	0	2,326	233	18,383	22,226
Appalachian Regional Commission	1,900	0	0	0	0	0	0	1,900	0
Consumer Product Safety Commission	818	0	0	115	0	0	703	0	0
Environmental Protection Agency	415,210	169,024	1,556	82,357	76,051	5,510	77,813	0	2,899
Federal Communications Commission	1,594	0	0	0	0	115	1,186	293	0
Federal Trade Commission	528	0	0	0	0	0	0	528	0
International Trade Commission	11,720	0	0	0	0	0	0	11,720	0
Library of Congress	2,025	0	0	0	0	0	0	0	2,025
Nat'l Aeronautics & Space Admin	3,664,084	193,777	11,885	1,008,865	744,079	78,558	1,602,844	150	23,926
Nat'l Archives & Records Admin	260	0	0	250	0	10	0	0	0
Nat'l Science Foundation	1,936,462	290,670	2,051	512,556	436,390	206,107	286,337	44,832	157,519
Nuclear Regulatory Commission	118,898	0	0	0	0	0	118,898	0	0
Smithsonian Institution	100,000	34,219	0	26,888	7,124	0	0	31,769	0
Tennessee Valley Authority	24,108	4,320	0	6,319	750	0	2,729	558	9,432
US Arms Control & Disarmament Agency	2,058	0	0	100	0	235	0	1,723	0
United States Information Agency	950	0	0	0	0	0	950	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-21. Federal obligations for research, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	27,899,305	11,338,202	570,594	4,789,854	2,503,218	1,212,310	5,935,286	717,710	832,131
Departments:									
Department of Agriculture, total	1,271,820	1,006,684	328	85,296	15,988	13,741	41,208	108,575	0
Agricultural Cooperative Svc	3,097	0	0	0	0	0	0	3,097	0
Agricultural Marketing Svc 1/	3,729	3,729	0	0	0	0	0	0	0
Agricultural Research Svc	611,137	543,710	0	55,669	3,507	1,635	6,616	0	0
Cooperative State Research Svc	404,273	334,769	0	17,138	872	0	17,463	34,031	0
Economic Research Svc	60,372	0	0	0	0	0	0	60,372	0
Federal Grain Inspection Svc	1,139	1,139	0	0	0	0	0	0	0
Forest Svc	172,500	111,228	328	12,489	11,609	8,642	17,129	11,075	0
Human Nutrition Information Svc	10,788	10,788	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,464	0	0	0	0	3,464	0	0	0
Office of International Cooperation & Development	1,321	1,321	0	0	0	0	0	0	0
Department of Commerce, total	533,843	71,595	581	89,882	211,673	35,109	94,914	10,286	19,803
Bureau of the Census	3,793	0	442	0	0	2,589	0	696	66
Nat'l Inst of Standards & Tech	181,653	0	0	75,161	630	22,613	82,991	258	0
Nat'l Oceanic & Atmospheric Admin	342,121	71,595	139	14,721	211,043	9,907	5,647	9,332	19,737
Nat'l Telecomm & Information Admin	6,276	0	0	0	0	0	6,276	0	0
Department of Defense, total	4,526,832	574,081	104,184	624,234	316,391	516,765	2,252,119	1,270	137,788
Department of the Army	765,372	130,203	31,421	116,318	32,051	36,631	399,010	1,270	18,468
Department of the Navy	1,090,000	51,989	37,389	250,164	160,087	65,711	510,328	0	14,332
Department of the Air Force	1,014,691	81,312	30,287	123,847	79,179	60,102	639,964	0	0
Defense agencies	1,398,697	52,505	5,087	133,905	45,074	354,321	702,817	0	104,988
Health Affairs, Assistant Secretary of Defense for	258,072	258,072	0	0	0	0	0	0	0
Department of Education	146,512	17,619	5,178	0	0	1,883	5,648	116,184	0
Department of Energy	3,620,919	247,825	0	2,011,644	296,870	204,707	789,011	0	70,862
Dept of Health & Human Svcs, total	9,308,781	8,039,052	400,068	160,931	0	22,069	93,076	283,605	309,980
Admin on Aging 2/	2,860	0	0	0	0	0	0	2,860	0
Admin for Children and Families 2/	16,000	0	0	0	0	0	0	16,000	0
Agency for Health Care Policy & Research 3/	67,948	0	0	0	0	0	0	67,948	0
Alcohol, Drug Abuse, & Mental Health Admin	1,041,857	630,709	268,852	12,533	0	2,384	793	96,966	29,620
Centers for Disease Control	118,325	118,325	0	0	0	0	0	0	0
Food & Drug Admin	143,300	143,300	0	0	0	0	0	0	0
Health Care Financing Admin	36,000	0	0	0	0	0	0	36,000	0
Health Resources and Svcs Admin	11,067	11,067	0	0	0	0	0	0	0
Nat'l Institutes of Health	7,843,500	7,132,823	131,216	148,398	0	19,685	92,283	38,735	280,360
Office of Asst Secy for Health	2,828	2,828	0	0	0	0	0	0	0
Office of the Secretary	5,224	0	0	0	0	0	0	5,224	0
Social Security Admin	19,872	0	0	0	0	0	0	19,872	0
Dept of Housing & Urban Development	13,206	0	0	0	371	199	369	10,804	1,463

See explanatory information, if any, and SOURCE at end of table.

Table C-21. Federal obligations for research, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Department of the Interior, total	506,206	102,955	0	35,092	276,039	13,305	74,211	4,604	0
Bureau of Land Management	10,991	8,646	0	0	2,141	0	0	204	0
Bureau of Mines	70,440	0	0	0	10,391	0	60,049	0	0
Bureau of Reclamation	8,300	2,955	0	2,510	15	0	2,820	0	0
Geological Survey	313,897	1,951	0	32,582	258,295	13,005	7,664	400	0
Minerals Management Svc	3,678	0	0	0	0	0	3,678	0	0
Nat'l Park Svc	29,500	22,200	0	0	3,000	300	0	4,000	0
Office of the Secretary	2,000	0	0	0	2,000	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	400	203	0	0	197	0	0	0	0
US Fish & Wildlife Svc	67,000	67,000	0	0	0	0	0	0	0
Department of Justice, total	15,655	500	1,750	0	0	850	700	11,855	0
Bureau of Prisons 4/	2,000	0	400	0	0	0	0	1,600	0
Drug Enforcement Admin	300	0	0	0	0	0	300	0	0
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	12,955	500	1,350	0	0	850	0	10,255	0
Department of Labor, total	27,595	0	0	0	0	0	0	27,595	0
Bureau of Labor Statistics	8,400	0	0	0	0	0	0	8,400	0
Employment and Training Admin	4,000	0	0	0	0	0	0	4,000	0
Occupational Safety & Health Admin	3,219	0	0	0	0	0	0	3,219	0
Office of the Secretary	9,081	0	0	0	0	0	0	9,081	0
Pension Benefit Guaranty Corporation	535	0	0	0	0	0	0	535	0
Pension & Welfare Benefit Admin	2,360	0	0	0	0	0	0	2,360	0
Department of State	5,314	0	0	0	0	0	0	5,314	0
Department of Transportation, total	210,243	6,712	23,760	7,868	11,053	20,722	132,050	7,690	388
Coast Guard	7,375	0	698	0	819	1,970	3,888	0	0
Federal Aviation Admin	64,543	3,049	23,062	4,540	827	6,793	26,272	0	0
Federal Highway Admin	77,315	0	0	1,345	9,257	6,725	59,513	475	0
Federal Railroad Admin	21,197	0	0	1,695	0	0	16,746	2,756	0
Maritime Admin	1,734	0	0	0	50	0	1,684	0	0
Nat'l Highway Traffic Safety Admin	35,778	3,663	0	0	0	4,524	23,307	4,284	0
Office of the Secretary	763	0	0	288	0	0	400	75	0
Research & Special Programs Admin	1,538	0	0	0	100	710	240	100	388
Department of the Treasury, total	23,241	160	412	1,975	0	11,178	0	9,516	0
Bureau of Engraving and Printing	1,325	0	0	1,325	0	0	0	0	0
Internal Revenue Svc	17,521	0	0	0	0	11,178	0	6,343	0
Office of Protective Research	572	160	412	0	0	0	0	0	0
Office of Thrift Supervision 5/	3,173	0	0	0	0	0	0	3,173	0
United States Customs Svc	650	0	0	650	0	0	0	0	0
Department of Veterans Affairs	219,000	195,959	17,405	0	0	0	5,636	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-21. Federal obligations for research, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Advisory Commission on Intergovernmental Relations	1,481	0	0	0	0	0	0	1,481	0
Agency for International Development	347,119	295,771	0	0	0	2,842	208	14,354	33,944
Appalachian Regional Commission	900	0	0	0	0	0	0	900	0
Consumer Product Safety Commission	1,090	0	0	470	0	0	620	0	0
Environmental Protection Agency	435,248	179,444	1,753	86,705	78,883	8,851	76,325	0	3,287
Federal Communications Commission	1,585	0	0	0	0	115	1,208	262	0
Federal Trade Commission	548	0	0	0	0	0	0	548	0
International Trade Commission	12,533	0	0	0	0	0	0	12,533	0
Library of Congress	2,033	0	0	0	0	0	0	0	2,033
Nat'l Aeronautics & Space Admin	4,163,234	217,413	12,775	1,085,987	781,816	107,637	1,895,350	160	62,096
Nat'l Archives & Records Admin	260	0	0	260	0	0	0	0	0
Nat'l Science Foundation	2,246,933	340,206	2,400	567,901	504,993	252,337	344,313	53,340	181,443
Nuclear Regulatory Commission	127,720	0	0	0	0	0	127,720	0	0
Smithsonian Institution	118,000	42,226	0	31,609	8,331	0	0	35,834	0
Tennessee Valley Authority	9,854	0	0	0	810	0	0	0	9,044
US Arms Control & Disarmament Agency	1,000	0	0	0	0	0	0	1,000	0
United States Information Agency	600	0	0	0	0	0	600	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-22. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	482,400	140,369	198,432	143,599	9,621,981	4,411,944	459,747	726,180	3,460,299	563,811
Departments:										
Department of Agriculture, total	323	0	323	0	914,171	142,099	179,848	570,324	21,900	0
Agricultural Marketing Svc 1/	0	0	0	0	3,716	0	0	3,716	0	0
Agricultural Research Svc	0	0	0	0	489,261	28,281	48,788	400,451	11,741	0
Cooperative State Research Svc	0	0	0	0	297,936	70,383	64,750	152,644	10,159	0
Federal Grain Inspection Svc	0	0	0	0	650	0	0	650	0	0
Forest Svc	323	0	323	0	109,745	43,435	66,310	0	0	0
Human Nutrition Information Svc	0	0	0	0	9,899	0	0	9,899	0	0
Office of International Cooperation & Development	0	0	0	0	2,964	0	0	2,964	0	0
Department of Commerce, total	838	0	838	0	68,242	10,269	41,451	13,939	2,583	0
Bureau of the Census	666	0	666	0	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	172	0	172	0	68,242	10,269	41,451	13,939	2,583	0
Department of Defense, total	97,328	11,032	79,722	6,574	304,812	66,197	16,032	0	179,551	43,032
Department of the Army	40,505	1,034	37,073	2,398	165,538	10,101	971	0	154,466	0
Department of the Navy	30,301	9,998	18,127	2,176	44,998	14,475	9,942	0	20,581	0
Department of the Air Force	22,889	0	22,889	0	66,781	21,002	1,831	0	916	43,032
Defense agencies	3,633	0	1,633	2,000	27,495	20,619	3,288	0	3,588	0
Department of Education	4,961	0	3,622	1,339	16,883	3,788	0	0	6,089	7,006
Department of Energy	0	0	0	0	285,359	151,736	614	503	115,587	16,919
Dept of Health & Human Svcs, total	344,105	111,395	100,442	132,268	6,805,987	3,598,413	1,189	47,560	2,869,859	288,966
Alcohol, Drug Abuse, & Mental Health Admin	236,515	111,218	99,467	25,830	554,655	337,090	851	1,701	192,116	22,897
Centers for Disease Control	0	0	0	0	113,372	0	0	0	113,372	0
Food & Drug Admin	0	0	0	0	125,020	64,350	0	45,859	0	14,811
Health Resources and Svcs Admin	0	0	0	0	11,040	0	0	0	11,040	0
Nat'l Institutes of Health	107,590	177	975	106,438	5,992,286	3,196,973	338	0	2,543,717	251,258
Office of Asst Secy for Health	0	0	0	0	9,614	0	0	0	9,614	0

See explanatory information, if any, and SOURCE at end of table.

Table C-22. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Department of the Interior, total	0	0	0	0	100,879	47,613	49,683	3,283	0	300
Bureau of Land Management	0	0	0	0	4,845	713	1,069	3,063	0	0
Bureau of Reclamation	0	0	0	0	1,882	0	1,882	0	0	0
Geological Survey	0	0	0	0	2,063	719	1,124	220	0	0
Nat'l Park Svc	0	0	0	0	20,600	1,000	19,300	0	0	300
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	489	0	489	0	0	0
US Fish & Wildlife Svc	0	0	0	0	71,000	45,181	25,819	0	0	0
Department of Justice, total	863	224	200	439	442	0	0	0	0	442
Bureau of Prisons 2/	400	0	200	200	0	0	0	0	0	0
Office of Justice Programs	463	224	0	239	442	0	0	0	0	442
Department of Transportation, total	2,658	0	2,658	0	4,160	1,876	0	0	2,284	0
Coast Guard	557	0	557	0	0	0	0	0	0	0
Federal Aviation Admin	2,101	0	2,101	0	2,505	221	0	0	2,284	0
Nat'l Highway Traffic Safety Admin	0	0	0	0	1,655	1,655	0	0	0	0
Department of the Treasury, total	266	0	0	266	140	0	0	0	140	0
Office of Protective Research	266	0	0	266	140	0	0	0	140	0
Department of Veterans Affairs	16,544	16,317	227	0	177,092	29,658	0	0	147,434	0
Other agencies:										
Agency for International Development	0	0	0	0	304,539	3,160	7,282	82,815	32,523	178,759
Environmental Protection Agency	1,235	658	577	0	156,122	93,555	47,850	3,447	11,270	0
Nat'l Aeronautics & Space Admin	11,366	71	9,426	1,869	174,544	61,891	13,994	492	71,079	27,088
Nat'l Science Foundation	1,913	672	397	844	269,308	185,319	82,690	0	0	1,299
Smithsonian Institution	0	0	0	0	35,484	16,370	19,114	0	0	0
Tennessee Valley Authority	0	0	0	0	3,617	0	0	3,817	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ Formerly listed as Federal Prison System

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Biological	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	521,251	152,741	208,221	160,289	10,588,803	4,815,705	497,139	770,488	3,883,668	621,803
Departments:										
Department of Agriculture, total	347	0	347	0	993,152	157,090	194,718	617,991	23,353	0
Agricultural Marketing Svc 1/	0	0	0	0	4,074	0	0	4,074	0	0
Agricultural Research Svc	0	0	0	0	522,152	29,083	51,511	428,852	12,706	0
Cooperative State Research Svc	0	0	0	0	335,571	81,305	71,911	171,708	10,647	0
Federal Grain Inspection Svc	0	0	0	0	1,036	0	0	1,036	0	0
Forest Svc	347	0	347	0	117,998	46,702	71,296	0	0	0
Human Nutrition Information Svc	0	0	0	0	10,788	0	0	10,788	0	0
Office of International Cooperation & Development	0	0	0	0	1,533	0	0	1,533	0	0
Department of Commerce, total	640	0	640	0	85,872	15,043	53,214	14,868	2,747	0
Bureau of the Census	483	0	483	0	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	157	0	157	0	85,872	15,043	53,214	14,868	2,747	0
Department of Defense, total	95,366	12,426	75,310	7,630	333,759	74,184	22,462	0	193,524	43,589
Department of the Army	36,317	1,106	31,781	3,430	170,442	14,102	936	0	155,404	0
Department of the Navy	30,663	9,931	18,532	2,200	46,387	16,000	9,954	0	20,433	0
Department of the Air Force	23,186	0	23,186	0	64,990	18,619	1,855	0	927	43,589
Defense agencies	5,200	1,389	1,811	2,000	51,940	25,463	9,717	0	16,760	0
Department of Education	5,784	0	4,222	1,562	19,751	4,891	0	0	7,151	7,709
Department of Energy	0	0	0	0	257,383	163,785	655	550	73,153	19,240
Dept of Health & Human Svcs, total	377,648	121,039	109,239	147,370	7,611,421	3,927,396	1,261	53,742	3,299,083	329,939
Alcohol, Drug Abuse, & Mental Health Admin	253,563	120,473	106,056	27,034	594,705	358,456	868	1,736	208,738	24,907
Centers for Disease Control	0	0	0	0	117,400	0	0	0	117,400	0
Food & Drug Admin	0	0	0	0	137,706	70,439	0	52,006	0	15,261
Health Resources and Svcs Admin	0	0	0	0	11,179	0	0	0	11,179	0
Nat'l Institutes of Health	124,085	566	3,183	120,336	6,742,501	3,498,501	393	0	2,953,836	289,771
Office of Asst Secy for Health	0	0	0	0	7,930	0	0	0	7,930	0

See explanatory information, if any, and SOURCE at end of table.

Table C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Department of the Interior, total	0	0	0	0	101,692	45,673	52,479	3,440	0	100
Bureau of Land Management	0	0	0	0	4,605	486	972	3,147	0	0
Bureau of Reclamation	0	0	0	0	3,220	0	3,220	0	0	0
Geological Survey	0	0	0	0	2,249	778	1,178	293	0	0
Nat'l Park Svc	0	0	0	0	22,500	1,000	21,400	0	0	100
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	118	0	118	0	0	0
US Fish & Wildlife Svc	0	0	0	0	69,000	43,409	25,591	0	0	0
Department of Justice, total	2,350	550	1,600	200	700	700	0	0	0	0
Bureau of Prisons 2/	400	0	200	200	0	0	0	0	0	0
Office of Justice Programs	1,950	550	1,400	0	700	700	0	0	0	0
Department of Transportation, total	5,717	0	5,717	0	6,136	2,998	0	0	3,138	0
Coast Guard	810	0	810	0	0	0	0	0	0	0
Federal Aviation Admin	4,907	0	4,907	0	3,481	343	0	0	3,138	0
Nat'l Highway Traffic Safety Admin	0	0	0	0	2,655	2,655	0	0	0	0
Department of the Treasury, total	372	0	0	372	160	0	0	0	160	0
Office of Protective Research	372	0	0	372	160	0	0	0	160	0
Department of Veterans Affairs	17,535	17,280	255	0	195,224	28,951	0	0	166,273	0
Other agencies:										
Agency for International Development	0	0	0	0	291,543	1,970	5,553	71,567	21,986	190,467
Environmental Protection Agency	1,556	697	859	0	169,024	107,214	44,497	3,428	13,885	0
Nat'l Aeronautics & Space Admin	11,885	84	9,588	2,213	193,777	71,133	14,453	582	79,215	28,394
Nat'l Science Foundation	2,051	665	444	942	290,670	199,321	88,984	0	0	2,365
Smithsonian Institution	0	0	0	0	34,219	15,356	18,863	0	0	0
Tennessee Valley Authority	0	0	0	0	4,320	0	0	4,320	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ Formerly listed as Federal Prison System

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-24. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	570,594	166,352	231,639	172,603	11,338,202	5,124,606	508,959	780,988	4,080,658	842,991
Departments:										
Department of Agriculture, total	328	0	328	0	1,006,684	169,845	181,374	637,851	17,614	0
Agricultural Marketing Svc 1/	0	0	0	0	3,729	0	0	3,729	0	0
Agricultural Research Svc	0	0	0	0	543,710	30,283	53,639	446,557	13,231	0
Cooperative State Research Svc	0	0	0	0	334,769	95,540	60,529	174,317	4,383	0
Federal Grain Inspection Svc	0	0	0	0	1,139	0	0	1,139	0	0
Forest Svc	328	0	328	0	111,228	44,022	67,206	0	0	0
Human Nutrition Information Svc	0	0	0	0	10,788	0	0	10,788	0	0
Office of International Cooperation & Development	0	0	0	0	1,321	0	0	1,321	0	0
Department of Commerce, total	581	0	581	0	71,595	9,766	46,093	13,733	2,003	0
Bureau of the Census	442	0	442	0	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	139	0	139	0	71,595	9,766	46,093	13,733	2,003	0
Department of Defense, total	104,184	18,083	80,799	5,302	574,081	76,825	27,011	0	413,305	56,940
Department of the Army	31,421	879	27,873	2,669	130,203	12,391	798	0	117,014	0
Department of the Navy	37,389	12,423	22,333	2,633	51,989	21,231	11,515	0	19,243	0
Department of the Air Force	30,287	0	30,287	0	81,312	20,738	2,423	0	1,211	56,940
Defense agencies	5,087	4,781	306	0	52,505	22,465	12,275	0	17,765	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	258,072	0	0	0	258,072	0
Department of Education	5,178	0	3,780	1,398	17,619	3,954	0	0	6,355	7,310
Department of Energy	0	0	0	0	247,825	187,537	675	565	39,312	19,736
Dept of Health & Human Svcs, total	400,068	128,558	115,655	155,855	8,039,052	4,154,325	1,322	55,935	3,478,682	348,788
Alcohol, Drug Abuse, & Mental Health Admin	268,852	127,959	112,289	28,604	630,709	379,612	908	1,817	221,911	26,461
Centers for Disease Control	0	0	0	0	118,325	0	0	0	118,325	0
Food & Drug Admin	0	0	0	0	143,300	73,300	0	54,118	0	15,882
Health Resources and Svcs Admin	0	0	0	0	11,067	0	0	0	11,067	0
Nat'l Institutes of Health	131,216	599	3,366	127,251	7,132,823	3,701,413	414	0	3,124,551	306,445
Office of Asst Secy for Health	0	0	0	0	2,828	0	0	0	2,828	0

See explanatory information, if any, and SOURCE at end of table.

Table C-24. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Department of the Interior, total	0	0	0	0	102,955	45,706	51,418	5,631	0	200
Bureau of Land Management	0	0	0	0	8,646	1,272	1,908	5,466	0	0
Bureau of Reclamation	0	0	0	0	2,955	0	2,955	0	0	0
Geological Survey	0	0	0	0	1,951	793	993	165	0	0
Nat'l Park Svc	0	0	0	0	22,200	1,000	21,000	0	0	200
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	203	0	203	0	0	0
US Fish & Wildlife Svc	0	0	0	0	67,000	42,641	24,359	0	0	0
Department of Justice, total	1,750	550	1,000	200	500	500	0	0	0	0
Bureau of Prisons 2/	400	0	200	200	0	0	0	0	0	0
Office of Justice Programs	1,350	550	800	0	500	500	0	0	0	0
Department of Transportation, total	23,760	477	17,330	5,953	6,712	4,177	0	0	0	2,535
Coast Guard	698	0	698	0	0	0	0	0	0	0
Federal Aviation Admin	23,062	477	16,632	5,953	3,049	514	0	0	0	2,535
Nat'l Highway Traffic Safety Admin	0	0	0	0	3,663	3,663	0	0	0	0
Department of the Treasury, total	412	0	0	412	160	0	0	0	160	0
Office of Protective Research	412	0	0	412	160	0	0	0	160	0
Department of Veterans Affairs	17,405	17,123	282	0	195,959	23,577	0	0	0	172,382
Other agencies:										
Agency for International Development	0	0	0	0	295,771	1,493	4,388	62,031	24,614	203,245
Environmental Protection Agency	1,753	703	1,050	0	179,444	110,628	52,780	4,619	11,417	0
Nat'l Aeronautics & Space Admin	12,775	90	10,322	2,363	217,413	84,002	16,629	623	87,196	28,963
Nat'l Science Foundation	2,400	768	512	1,120	340,206	232,718	104,596	0	0	2,892
Smithsonian Institution	0	0	0	0	42,226	19,553	22,673	0	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ Formerly listed as Federal Prison System

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-25. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	4,235,336	631,657	828,420	2,460,930	314,329	2,149,783	802,700	728,749	398,579	219,755
Departments:										
Department of Agriculture, total	80,439	0	76,030	4,409	0	15,680	6,025	9,655	0	0
Agricultural Research Svc	49,588	0	47,511	2,077	0	3,380	3,069	311	0	0
Cooperative State Research Svc	18,528	0	18,528	0	0	845	845	0	0	0
Forest Svc	12,323	0	9,991	2,332	0	11,455	2,111	9,344	0	0
Department of Commerce, total	69,000	442	27,138	41,375	45	184,865	74,854	7,793	97,906	4,312
Nat'l Inst of Standards & Tech	53,595	442	19,324	33,784	45	461	0	461	0	0
Nat'l Oceanic & Atmospheric Admin	15,405	0	7,814	7,591	0	184,404	74,854	7,332	97,906	4,312
Department of Defense, total	574,706	4,951	138,522	367,637	63,596	262,666	81,984	86,250	86,641	7,791
Department of the Army	119,152	0	53,952	35,027	30,173	25,442	13,374	3,852	425	7,791
Department of the Navy	206,100	4,951	38,374	159,657	3,118	126,471	15,839	32,066	78,566	0
Department of the Air Force	104,420	0	43,212	58,061	3,147	64,619	45,228	19,391	0	0
Defense agencies	145,034	0	2,984	114,892	27,158	46,134	7,543	30,941	7,650	0
Department of Energy	1,837,775	0	187,630	1,497,100	153,045	238,469	72,812	90,313	5,006	70,338
Dept of Health & Human Svcs, total	142,276	0	119,896	22,380	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	11,620	0	11,596	24	0	0	0	0	0	0
Nat'l Institutes of Health	130,656	0	108,300	22,356	0	0	0	0	0	0
Dept of Housing & Urban Development	0	0	0	0	0	187	0	0	0	187
Department of the Interior, total	35,677	0	28,170	5,507	2,000	300,081	1,769	254,947	27,302	16,063
Bureau of Land Management	0	0	0	0	0	1,097	329	0	0	768
Bureau of Mines	0	0	0	0	0	16,195	0	1,789	0	14,406
Bureau of Reclamation	2,000	0	0	0	2,000	239	140	99	0	0
Geological Survey	33,677	0	28,170	5,507	0	279,984	1,300	250,482	27,302	0
Nat'l Park Svc	0	0	0	0	0	2,814	0	2,025	0	789
Office of the Secretary	0	0	0	0	0	100	0	0	0	100
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	0	552	0	552	0	0
Department of Transportation, total	2,788	0	1,272	1,316	200	2,421	190	1,095	803	333
Coast Guard	0	0	0	0	0	803	0	0	803	0
Federal Highway Admin	1,796	0	1,272	524	0	1,618	190	1,095	0	333
Federal Railroad Admin	792	0	0	792	0	0	0	0	0	0
Office of the Secretary	200	0	0	0	200	0	0	0	0	0
Department of the Treasury, total	3,219	0	1,936	503	780	0	0	0	0	0
Bureau of Engraving and Printing	2,719	0	1,936	3	780	0	0	0	0	0
United States Customs Svc	500	0	0	500	0	0	0	0	0	0
Other agencies:										
Consumer Product Safety Commission	178	0	178	0	0	0	0	0	0	0
Environmental Protection Agency	52,119	0	49,582	2,537	0	76,420	68,368	7,305	747	0
Nat'l Aeronautics & Space Admin	939,726	501,766	39,161	316,183	82,616	667,739	374,372	132,706	102,646	58,015
Nat'l Archives & Records Admin	541	0	266	275	0	0	0	0	0	0
Nat'l Science Foundation	467,150	101,712	151,683	201,708	12,047	393,317	121,505	133,561	75,535	62,716
Smithsonian Institution	22,786	22,786	0	0	0	7,188	71	5,124	1,993	0
Tennessee Valley Authority	6,956	0	6,956	0	0	750	750	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-26. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	4,533,696	707,216	909,419	2,583,622	333,439	2,359,758	876,310	788,174	429,216	266,058
Departments:										
Department of Agriculture, total	86,714	0	81,761	4,953	0	16,563	6,196	10,367	0	0
Agricultural Research Svc	53,462	0	51,016	2,446	0	3,369	3,049	320	0	0
Cooperative State Research Svc	20,003	0	20,003	0	0	878	878	0	0	0
Forest Svc	13,249	0	10,742	2,507	0	12,316	2,269	10,047	0	0
Department of Commerce, total	83,309	315	30,901	51,987	106	201,127	83,517	9,241	103,757	4,612
Nat'l Inst of Standards & Tech	67,303	315	22,759	44,123	106	467	0	467	0	0
Nat'l Oceanic & Atmospheric Admin	16,006	0	8,142	7,864	0	200,660	83,517	8,774	103,757	4,612
Department of Defense, total	599,028	5,244	144,041	368,241	81,502	281,812	83,510	88,999	88,267	21,036
Department of the Army	124,647	0	52,443	43,821	28,383	33,266	12,804	3,648	394	16,420
Department of the Navy	208,171	5,244	37,781	161,984	3,162	132,415	16,691	34,263	81,461	0
Department of the Air Force	104,791	0	42,267	59,336	3,188	63,700	47,468	16,232	0	0
Defense agencies	161,419	0	11,550	103,100	46,769	52,431	6,547	34,856	6,412	4,616
Department of Energy	1,931,611	0	199,502	1,598,714	133,395	280,610	83,917	94,933	5,714	96,046
Dept of Health & Human Svcs, total	151,899	0	126,084	25,815	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	11,845	0	11,818	27	0	0	0	0	0	0
Nat'l Institutes of Health	140,054	0	114,266	25,788	0	0	0	0	0	0
Dept of Housing & Urban Development	0	0	0	0	0	369	0	0	0	369
Department of the Interior, total	37,065	0	29,388	5,677	2,000	306,092	1,362	258,227	28,031	18,472
Bureau of Land Management	0	0	0	0	0	1,572	262	0	0	1,310
Bureau of Mines	0	0	0	0	0	18,051	0	1,789	0	16,262
Bureau of Reclamation	2,000	0	0	0	2,000	0	0	0	0	0
Geological Survey	35,065	0	29,388	5,677	0	283,433	1,100	254,302	28,031	0
Nat'l Park Svc	0	0	0	0	0	2,700	0	2,000	0	700
Office of the Secretary	0	0	0	0	0	200	0	0	0	200
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	0	136	0	136	0	0
Department of Transportation, total	2,846	0	0	2,581	265	8,791	265	7,224	887	415
Coast Guard	0	0	0	0	0	822	0	0	822	0
Federal Highway Admin	1,127	0	0	1,127	0	7,754	265	7,224	0	265
Federal Railroad Admin	1,454	0	0	1,454	0	0	0	0	0	0
Maritime Admin	0	0	0	0	0	50	0	0	0	50
Office of the Secretary	265	0	0	0	265	0	0	0	0	0
Research & Special Programs Admin	0	0	0	0	0	165	0	0	65	100
Department of the Treasury, total	3,774	0	1,261	374	2,139	0	0	0	0	0
Bureau of Engraving and Printing	3,524	0	1,261	124	2,139	0	0	0	0	0
United States Customs Svc	250	0	0	250	0	0	0	0	0	0
Other agencies:										
Consumer Product Safety Commission	115	0	115	0	0	0	0	0	0	0
Environmental Protection Agency	82,357	0	76,951	5,406	0	76,051	68,616	5,397	2,038	0
Nat'l Aeronautics & Space Admin	1,008,865	559,130	48,548	301,714	99,473	744,079	414,074	160,873	114,969	54,163
Nat'l Archives & Records Admin	250	0	70	180	0	0	0	0	0	0
Nat'l Science Foundation	512,556	115,639	164,378	217,980	14,559	436,390	134,042	147,828	83,575	70,945
Smithsonian Institution	26,888	26,888	0	0	0	7,124	61	5,085	1,978	0
Tennessee Valley Authority	6,319	0	6,319	0	0	750	750	0	0	0
US Arms Control & Disarmament Agency	100	0	100	0	0	0	0	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-27. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	4,789,854	791,887	950,868	2,685,796	361,303	2,503,218	965,060	794,286	475,979	267,893
Departments:										
Department of Agriculture, total	85,296	0	80,386	4,910	0	15,988	6,185	9,803	0	0
Agricultural Research Svc	55,669	0	53,122	2,547	0	3,507	3,174	333	0	0
Cooperative State Research Svc	17,138	0	17,138	0	0	872	872	0	0	0
Forest Svc	12,489	0	10,126	2,363	0	11,609	2,139	9,470	0	0
Department of Commerce, total	89,882	331	32,414	55,121	2,016	211,673	86,355	5,993	114,389	4,936
Nat'l Inst of Standards & Tech	75,161	331	24,939	47,875	2,016	630	0	630	0	0
Nat'l Oceanic & Atmospheric Admin	14,721	0	7,475	7,246	0	211,043	86,355	5,363	114,389	4,936
Department of Defense, total	624,234	5,553	149,300	392,591	76,790	316,391	100,443	94,949	103,859	17,140
Department of the Army	116,318	0	45,366	39,271	31,681	32,051	13,433	3,656	322	14,640
Department of the Navy	250,164	5,495	44,601	196,033	4,035	160,087	19,972	42,978	97,137	0
Department of the Air Force	123,847	0	48,634	71,049	4,164	79,179	58,032	21,147	0	0
Defense agencies	133,905	58	10,699	86,238	36,910	45,074	9,006	27,168	6,400	2,500
Department of Energy	2,011,644	0	200,804	1,667,384	143,456	296,870	110,655	89,426	8,712	88,077
Dept of Health & Human Svcs, total	160,931	0	133,611	27,320	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	12,533	0	12,504	29	0	0	0	0	0	0
Nat'l Institutes of Health	148,398	0	121,107	27,291	0	0	0	0	0	0
Dept of Housing & Urban Development	0	0	0	0	0	371	0	0	0	371
Department of the Interior, total	35,092	0	27,444	5,138	2,510	276,039	1,282	234,770	26,311	13,676
Bureau of Land Management	0	0	0	0	0	2,141	357	0	0	1,784
Bureau of Mines	0	0	0	0	0	10,391	0	1,299	0	9,092
Bureau of Reclamation	2,510	0	0	0	2,510	15	0	15	0	0
Geological Survey	32,582	0	27,444	5,138	0	258,295	925	231,059	26,311	0
Nat'l Park Svc	0	0	0	0	0	3,000	0	2,200	0	800
Office of the Secretary	0	0	0	0	0	2,000	0	0	0	2,000
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	0	197	0	197	0	0
Department of Transportation, total	7,868	0	440	7,140	288	11,053	1,143	8,624	819	467
Coast Guard	0	0	0	0	0	819	0	0	819	0
Federal Aviation Admin	4,540	0	440	4,100	0	827	827	0	0	0
Federal Highway Admin	1,345	0	0	1,345	0	9,257	316	8,624	0	317
Federal Railroad Admin	1,695	0	0	1,695	0	0	0	0	0	0
Maritime Admin	0	0	0	0	0	50	0	0	0	50
Office of the Secretary	288	0	0	0	288	0	0	0	0	0
Research & Special Programs Admin	0	0	0	0	0	100	0	0	0	100
Department of the Treasury, total	1,975	0	905	700	370	0	0	0	0	0
Bureau of Engraving and Printing	1,325	0	905	50	370	0	0	0	0	0
United States Customs Svc	650	0	0	650	0	0	0	0	0	0
Other agencies:										
Consumer Product Safety Commission	470	0	470	0	0	0	0	0	0	0
Environmental Protection Agency	86,705	0	80,694	6,011	0	78,883	68,207	6,298	4,378	0
Nat'l Aeronautics & Space Admin	1,085,987	630,009	58,098	278,013	119,867	781,816	433,855	167,850	118,693	61,418
Nat'l Archives & Records Admin	260	0	70	190	0	0	0	0	0	0
Nat'l Science Foundation	567,901	124,385	186,232	241,278	16,006	504,993	156,029	170,644	96,512	81,808
Smithsonian Institution	31,609	31,609	0	0	0	8,331	96	5,929	2,306	0
Tennessee Valley Authority	0	0	0	0	0	810	810	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-28. Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	4,944,471	1,016,232	653,094	304,303	304,987	729,905	335,514	709,905	890,531
Departments:									
Department of Agriculture, total	43,527	0	0	7,943	6,466	627	4,405	0	24,086
Agricultural Research Svc	6,983	0	0	4,335	1,666	559	423	0	0
Cooperative State Research Svc	19,644	0	0	0	0	0	0	0	19,644
Forest Svc	16,900	0	0	3,608	4,800	68	3,982	0	4,442
Department of Commerce, total	65,562	0	0	4,529	5,237	15,295	2,842	14,864	22,795
Nat'l Inst of Standards & Tech	55,514	0	0	4,529	4,213	10,224	2,842	14,864	18,842
Nat'l Oceanic & Atmospheric Admin	6,473	0	0	0	1,024	1,496	0	0	3,953
Nat'l Telecomm & Information Admin	3,575	0	0	0	0	3,575	0	0	0
Department of Defense, total	1,938,019	224,323	118,184	41,853	160,848	584,414	198,341	493,137	116,919
Department of the Army	430,275	46,480	1,495	29,003	42,292	163,695	63,695	44,508	39,107
Department of the Navy	403,356	7,346	45,574	9,554	14,127	141,201	94,506	88,760	2,288
Department of the Air Force	498,153	165,551	64,673	3,296	12,230	170,306	35,102	39,670	7,325
Defense agencies	606,235	4,946	6,442	0	92,199	109,212	5,038	320,199	68,199
Department of Education	5,412	0	0	0	0	0	0	0	5,412
Department of Energy	723,603	0	0	142,265	32,303	42,873	49,062	72,898	384,202
Dept of Health & Human Svcs, total	76,330	0	0	0	0	0	0	0	76,330
Alcohol, Drug Abuse, & Mental Health Admin	674	0	0	0	0	0	0	0	674
Nat'l Institutes of Health	75,656	0	0	0	0	0	0	0	75,656
Dept of Housing & Urban Development	135	0	0	0	0	0	0	0	135
Department of the Interior, total	97,462	0	0	7,123	3,867	967	1,272	25,129	59,104
Bureau of Mines	82,797	0	0	0	0	0	0	25,055	57,742
Bureau of Reclamation	3,624	0	0	126	1,400	667	232	61	1,138
Geological Survey	8,355	0	0	5,755	1,900	300	400	0	0
Minerals Management Svc	2,686	0	0	1,242	567	0	640	13	224
Department of Justice, total	1,300	0	0	0	0	200	200	0	900
Drug Enforcement Admin	900	0	0	0	0	0	0	0	900
Immigration & Naturalization Svc	400	0	0	0	0	200	200	0	0
Department of Transportation, total	78,932	2,879	200	6,119	40,676	9,154	17,839	550	1,515
Coast Guard	3,321	0	0	0	593	1,418	548	0	762
Federal Aviation Admin	10,386	2,879	0	0	1,090	6,417	0	0	0
Federal Highway Admin	39,738	0	0	5,855	33,454	0	143	286	0
Federal Railroad Admin	9,763	0	0	264	3,826	1,319	3,694	264	396
Maritime Admin	1,713	0	0	0	1,713	0	0	0	0
Nat'l Highway Traffic Safety Admin	13,454	0	0	0	0	0	13,454	0	0
Office of the Secretary	350	0	200	0	0	0	0	0	150
Research & Special Programs Admin	207	0	0	0	0	0	0	0	207
Department of Veterans Affairs	164	0	0	0	0	0	0	0	164
Other agencies:									
Agency for International Development	906	0	0	0	725	0	0	0	181
Consumer Product Safety Commission	705	0	0	0	0	0	0	0	705
Environmental Protection Agency	60,922	0	0	31,405	23,711	886	2,286	178	2,456
Federal Communications Commission	928	0	0	0	0	888	0	0	40
Nat'l Aeronautics & Space Admin	1,477,950	788,208	534,710	12,893	340	16,634	19,055	74,253	31,857
Nat'l Science Foundation	262,669	822	0	49,178	30,814	57,867	40,212	28,896	54,880
Nuclear Regulatory Commission	108,800	0	0	0	0	0	0	0	108,800
Tennessee Valley Authority	850	0	0	850	0	0	0	0	0
US Arms Control & Disarmament Agency	195	0	0	145	0	0	0	0	50
United States Information Agency	100	0	0	0	0	100	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-29. Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	5,487,711	1,167,023	659,193	350,393	352,000	759,920	342,570	752,683	1,103,929
Departments:									
Department of Agriculture, total	45,921	0	0	7,391	7,012	603	4,744	0	26,171
Agricultural Research Svc	6,354	0	0	3,511	1,851	530	462	0	0
Cooperative State Research Svc	21,395	0	0	0	0	0	0	0	21,395
Forest Svc	18,172	0	0	3,880	5,161	73	4,282	0	4,776
Department of Commerce, total	88,049	0	94	5,911	6,751	20,231	3,922	22,869	28,271
Nat'l Inst of Standards & Tech	77,312	0	94	5,911	5,711	14,731	3,922	22,869	24,074
Nat'l Oceanic & Atmospheric Admin	6,786	0	0	0	1,040	1,549	0	0	4,197
Nat'l Telecomm & Information Admin	3,951	0	0	0	0	3,951	0	0	0
Department of Defense, total	2,088,605	238,541	120,912	49,549	186,439	592,324	204,900	536,623	159,317
Department of the Army	447,619	52,886	3,731	29,412	46,360	156,068	62,158	70,060	26,944
Department of the Navy	414,766	7,536	47,265	9,054	14,419	146,206	95,074	92,814	2,398
Department of the Air Force	497,674	174,716	67,607	3,339	12,348	174,348	29,098	28,799	7,419
Defense agencies	728,546	3,403	2,309	7,744	113,312	115,702	18,570	344,950	122,556
Department of Education	6,310	0	0	0	0	0	0	0	6,310
Department of Energy	865,127	0	0	164,865	35,990	43,024	38,520	67,444	515,284
Dept of Health & Human Svcs, total	87,960	0	0	0	0	0	0	0	87,960
Alcohol, Drug Abuse, & Mental Health Admin	744	0	0	0	0	0	0	0	744
Nat'l Institutes of Health	87,216	0	0	0	0	0	0	0	87,216
Dept of Housing & Urban Development	581	0	0	0	0	0	0	0	581
Department of the Interior, total	102,466	0	0	8,487	4,842	770	1,328	26,703	60,336
Bureau of Mines	84,879	0	0	0	0	0	0	26,592	58,287
Bureau of Reclamation	5,480	0	0	0	2,681	570	313	50	1,866
Geological Survey	8,422	0	0	6,222	1,700	200	300	0	0
Minerals Management Svc	3,685	0	0	2,265	461	0	715	61	183

See explanatory information, if any, and SOURCE at end of table.

Table C-29. Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Department of Justice, total	700	0	0	0	0	200	200	0	300
Drug Enforcement Admin	300	0	0	0	0	0	0	0	300
Immigration & Naturalization Svc	400	0	0	0	0	200	200	0	0
Department of Transportation, total	110,017	3,384	200	1,677	50,444	18,985	24,471	493	10,363
Coast Guard	3,733	0	0	0	595	1,602	783	0	753
Federal Aviation Admin	17,462	3,384	0	0	0	14,078	0	0	0
Federal Highway Admin	51,816	0	0	1,193	41,078	862	0	0	8,683
Federal Railroad Admin	17,928	0	0	484	7,026	2,423	6,784	484	727
Maritime Admin	1,701	0	0	0	1,701	0	0	0	0
Nat'l Highway Traffic Safety Admin	16,889	0	0	0	0	0	16,889	0	0
Office of the Secretary	400	0	200	0	0	0	0	0	200
Research & Special Programs Admin	88	0	0	0	44	20	15	9	0
Department of the Treasury, total	41	0	0	0	0	0	41	0	0
Bureau of Engraving and Printing	41	0	0	0	0	0	41	0	0
Department of Veterans Affairs	241	0	0	0	0	0	0	0	241
Other agencies:									
Agency for International Development	233	0	0	0	0	0	0	0	233
Consumer Product Safety Commission	703	0	0	0	0	0	0	0	703
Environmental Protection Agency	77,813	0	0	43,445	26,676	936	4,004	370	2,382
Federal Communications Commission	1,186	0	0	0	0	1,124	0	0	62
Nat'l Aeronautics & Space Admin	1,602,844	924,210	537,987	12,473	403	17,504	16,832	67,067	26,368
Nat'l Science Foundation	286,337	888	0	53,866	33,443	63,269	43,608	31,114	60,149
Nuclear Regulatory Commission	118,898	0	0	0	0	0	0	0	118,898
Tennessee Valley Authority	2,729	0	0	2,729	0	0	0	0	0
United States Information Agency	950	0	0	0	0	950	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-30. Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	5,935,286	1,367,650	771,255	309,302	387,296	837,639	394,905	693,188	1,174,051
Departments:									
Department of Agriculture, total	41,208	0	0	7,314	6,791	620	4,519	0	21,964
Agricultural Research Svc	6,616	0	0	3,657	1,926	551	482	0	0
Cooperative State Research Svc	17,463	0	0	0	0	0	0	0	17,463
Forest Svc	17,129	0	0	3,657	4,865	69	4,037	0	4,501
Department of Commerce, total	94,914	0	99	6,555	7,015	21,738	2,518	26,851	30,138
Nat'l Inst of Standards & Tech	82,991	0	99	6,555	6,001	14,046	2,518	26,851	26,921
Nat'l Oceanic & Atmospheric Admin	5,647	0	0	0	1,014	1,416	0	0	3,217
Nat'l Telecomm & Information Admin	6,276	0	0	0	0	6,276	0	0	0
Department of Defense, total	2,252,119	280,845	151,560	37,926	210,615	640,119	234,901	435,400	260,753
Department of the Army	399,010	43,457	2,772	19,638	48,959	132,038	65,585	54,222	32,339
Department of the Navy	510,328	9,305	58,363	11,552	17,750	178,774	116,352	115,334	2,898
Department of the Air Force	639,964	223,994	83,535	4,361	13,060	225,966	33,666	45,690	9,692
Defense agencies	702,817	4,089	6,890	2,375	130,846	103,341	19,298	220,154	215,824
Department of Education	5,648	0	0	0	0	0	0	0	5,648
Department of Energy	789,011	0	0	119,022	40,322	47,098	41,056	68,323	473,190
Dept of Health & Human Svcs, total	93,076	0	0	0	0	0	0	0	93,076
Alcohol, Drug Abuse, & Mental Health Admin	793	0	0	0	0	0	0	0	793
Nat'l Institutes of Health	92,283	0	0	0	0	0	0	0	92,283
Dept of Housing & Urban Development	369	0	0	0	0	0	0	0	369
Department of the Interior, total	74,211	0	0	8,714	2,846	460	1,058	21,885	39,248
Bureau of Mines	60,049	0	0	0	0	0	0	20,985	39,064
Bureau of Reclamation	2,820	0	0	110	1,385	340	145	840	0
Geological Survey	7,664	0	0	6,344	1,000	120	200	0	0
Minerals Management Svc	3,678	0	0	2,260	461	0	713	60	184
Department of Justice, total	700	0	0	0	0	200	200	0	300
Drug Enforcement Admin	300	0	0	0	0	0	0	0	300
Immigration & Naturalization Svc	400	0	0	0	0	200	200	0	0
Department of Transportation, total	132,050	13,757	200	2,948	54,335	8,063	32,837	7,773	12,137
Coast Guard	3,888	0	0	0	555	1,729	807	0	797
Federal Aviation Admin	26,272	13,757	0	1,100	0	2,338	1,940	7,137	0
Federal Highway Admin	59,513	0	0	1,424	46,697	1,028	0	0	10,364
Federal Railroad Admin	16,748	0	0	424	5,299	2,968	6,783	636	636
Maritime Admin	1,684	0	0	0	1,684	0	0	0	0
Nat'l Highway Traffic Safety Admin	23,307	0	0	0	0	0	23,307	0	0
Office of the Secretary	400	0	200	0	0	0	0	0	200
Research & Special Programs Admin	240	0	0	0	100	0	0	0	140
Department of Veterans Affairs	5,636	0	0	0	0	0	0	0	5,636
Other agencies:									
Agency for International Development	208	0	0	0	0	0	0	0	208
Consumer Product Safety Commission	620	0	0	0	0	0	0	0	620
Environmental Protection Agency	76,325	0	0	43,750	24,365	973	4,155	317	2,765
Federal Communications Commission	1,208	0	0	0	0	1,164	0	0	44
Nat'l Aeronautics & Space Admin	1,895,350	1,071,977	619,396	18,504	430	39,649	21,443	95,788	28,163
Nat'l Science Foundation	344,313	1,071	0	64,569	40,577	76,955	52,218	36,851	72,072
Nuclear Regulatory Commission	127,720	0	0	0	0	0	0	0	127,720
United States Information Agency	600	0	0	0	0	600	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-31. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	903,705	227,616	584,941	91,148	727,290	15,982	187,423	17,022	183,979	322,884
Departments:										
Department of Agriculture, total	13,358	11,930	1,428	0	107,967	0	98,288	544	9,060	75
Agricultural Cooperative Svc	0	0	0	0	2,814	0	2,814	0	0	0
Agricultural Research Svc	1,587	159	1,428	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	39,856	0	32,731	0	7,125	0
Economic Research Svc	0	0	0	0	54,370	0	53,348	169	778	75
Forest Svc	8,527	8,527	0	0	10,927	0	9,395	375	1,157	0
Nat'l Agricultural Statistics Svc	3,244	3,244	0	0	0	0	0	0	0	0
Department of Commerce, total	28,344	11,293	13,481	3,570	12,050	0	4,590	4,189	2,987	284
Bureau of the Census	3,445	3,252	193	0	597	0	325	272	0	0
Economic Development Admin	0	0	0	0	1,381	0	1,381	0	0	0
Nat'l Inst of Standards & Tech	14,516	3,274	7,672	3,570	263	0	263	0	0	0
Nat'l Oceanic & Atmospheric Admin	10,383	4,767	5,616	0	9,809	0	2,621	3,917	2,987	284
Department of Defense, total	380,536	42,480	288,556	49,500	2,598	0	1,064	0	710	824
Department of the Army	48,958	9,862	30,465	8,631	1,774	0	1,064	0	710	0
Department of the Navy	55,019	17,439	32,162	5,418	0	0	0	0	0	0
Department of the Air Force	51,138	4,006	20,887	26,245	0	0	0	0	0	0
Defense agencies	225,421	11,173	205,042	9,206	824	0	0	0	0	824
Department of Education	1,804	0	0	1,804	102,606	0	0	0	1,271	101,335
Department of Energy	142,703	37,048	87,305	18,350	0	0	0	0	0	0
Dept of Health & Human Svcs, total	18,225	7,623	902	9,700	318,881	2,621	9,502	2,570	154,681	149,507
Admin on Aging 1/	0	0	0	0	2,854	0	0	0	0	2,854
Admin for Children and Families 1/	0	0	0	0	13,500	0	0	0	0	13,500
Agency for Health Care Policy & Research 2/	0	0	0	0	93,041	0	0	0	93,041	0
Alcohol, Drug Abuse, & Mental Health Admin	2,084	1,182	902	0	89,678	2,621	4,215	2,129	58,557	22,156
Health Care Financing Admin	0	0	0	0	69,075	0	0	0	0	69,075
Nat'l Institutes of Health	16,141	6,441	0	9,700	31,746	0	0	0	0	31,746
Office of the Secretary	0	0	0	0	8,811	0	5,287	441	3,083	0
Social Security Admin	0	0	0	0	10,176	0	0	0	0	10,176
Dept of Housing & Urban Development	199	0	199	0	6,578	0	6,532	5	32	9
Department of the Interior, total	15,031	2,796	12,235	0	4,211	1,400	150	0	1,260	1,401
Geological Survey	14,681	2,796	11,885	0	501	0	0	0	0	501
Nat'l Park Svc	350	0	350	0	3,710	1,400	150	0	1,260	900
Department of Justice, total	1,050	450	600	0	14,529	550	350	1,125	5,279	7,225
Bureau of Prisons 3/	0	0	0	0	1,500	50	50	0	800	600
Office of Justice Programs	1,050	450	600	0	13,029	500	300	1,125	4,479	6,625

See explanatory information, if any, and SOURCE at end of table.

Table C-31. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Department of Labor, total	0	0	0	0	24,327	0	23,347	0	0	980
Bureau of Labor Statistics	0	0	0	0	7,500	0	7,500	0	0	0
Employment and Training Admin	0	0	0	0	6,600	0	6,600	0	0	0
Occupational Safety & Health Admin	0	0	0	0	2,603	0	2,603	0	0	0
Office of the Secretary	0	0	0	0	4,729	0	3,749	0	0	980
Pension Benefit Guaranty Corporation	0	0	0	0	355	0	355	0	0	0
Pension & Welfare Benefit Admin	0	0	0	0	2,540	0	2,540	0	0	0
Department of State	0	0	0	0	5,854	362	1,143	1,882	677	1,790
Department of Transportation, total	16,327	762	12,585	2,980	6,619	0	3,340	595	2,684	0
Coast Guard	1,703	0	1,703	0	0	0	0	0	0	0
Federal Aviation Admin	8,971	0	8,971	0	0	0	0	0	0	0
Federal Highway Admin	2,238	762	1,476	0	666	0	666	0	0	0
Federal Railroad Admin	0	0	0	0	2,638	0	2,638	0	0	0
Nat'l Highway Traffic Safety Admin	2,980	0	0	2,980	3,279	0	0	595	2,684	0
Office of the Secretary	0	0	0	0	36	0	36	0	0	0
Research & Special Programs Admin	435	0	435	0	0	0	0	0	0	0
Department of the Treasury, total	11,178	9,501	1,677	0	9,333	0	7,113	0	0	2,220
Internal Revenue Svc	11,178	9,501	1,677	0	6,343	0	4,123	0	0	2,220
Office of Thrift Supervision 4/	0	0	0	0	2,990	0	2,990	0	0	0
Other agencies:										
Advisory Commission on Intergovernmental Relations	0	0	0	0	1,663	0	831	832	0	0
Agency for International Development	4,112	0	4,112	0	24,342	0	6,138	838	863	16,503
Appalachian Regional Commission	0	0	0	0	742	0	0	0	0	742
Environmental Protection Agency	4,480	0	4,480	0	0	0	0	0	0	0
Federal Communications Commission	75	0	75	0	439	0	359	0	0	80
Federal Trade Commission	0	0	0	0	957	0	957	0	0	0
International Trade Commission	0	0	0	0	9,885	0	9,885	0	0	0
Nat'l Aeronautics & Space Admin	79,932	23,908	51,080	4,944	126	0	36	0	90	0
Nat'l Archives & Records Admin	70	70	0	0	0	0	0	0	0	0
Nat'l Science Foundation	186,281	79,755	106,226	300	40,366	7,522	13,317	4,247	4,385	10,895
Smithsonian Institution	0	0	0	0	32,541	3,527	0	0	0	29,014
Tennessee Valley Authority	0	0	0	0	481	0	481	0	0	0
US Arms Control & Disarmament Agency	0	0	0	0	195	0	0	195	0	0

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ Formerly listed as Federal Prison System

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-32. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	1,153,879	269,820	778,185	105,874	790,181	16,306	197,257	18,771	191,888	365,959
Departments:										
Department of Agriculture, total	14,160	12,747	1,413	0	115,559	0	105,461	585	9,431	82
Agricultural Cooperative Svc	0	0	0	0	3,518	0	3,518	0	0	0
Agricultural Research Svc	1,569	156	1,413	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	41,571	0	34,225	0	7,346	0
Economic Research Svc	0	0	0	0	58,720	0	57,616	182	840	82
Forest Svc	9,168	9,168	0	0	11,750	0	10,102	403	1,245	0
Nat'l Agricultural Statistics Svc	3,423	3,423	0	0	0	0	0	0	0	0
Department of Commerce, total	36,374	12,025	19,641	4,708	12,151	0	3,304	4,910	3,677	260
Bureau of the Census	2,771	2,544	227	0	703	0	384	319	0	0
Economic Development Admin	0	0	0	0	500	0	500	0	0	0
Nat'l Inst of Standards & Tech	22,210	4,241	13,261	4,708	241	0	241	0	0	0
Nat'l Oceanic & Atmospheric Admin	11,393	5,240	6,153	0	10,707	0	2,179	4,591	3,677	260
Department of Defense, total	546,200	49,098	445,318	51,784	1,493	0	895	0	598	0
Department of the Army	49,891	10,359	31,635	7,897	1,493	0	895	0	598	0
Department of the Navy	55,257	18,064	32,305	4,888	0	0	0	0	0	0
Department of the Air Force	50,101	4,057	21,157	24,887	0	0	0	0	0	0
Defense agencies	390,951	16,618	360,221	14,112	0	0	0	0	0	0
Department of Education	1,578	0	0	1,578	116,166	0	0	0	1,353	114,813
Department of Energy	195,221	61,921	97,975	35,325	0	0	0	0	0	0
Dept of Health & Human Svcs, total	20,873	8,747	12,126	0	357,531	2,676	7,354	2,591	161,371	183,539
Admin on Aging 1/	0	0	0	0	2,860	0	0	0	0	2,860
Admin for Children and Families 1/	0	0	0	0	14,400	0	0	0	0	14,400
Agency for Health Care Policy & Research 2/	0	0	0	0	97,836	0	0	0	97,836	0
Alcohol, Drug Abuse, & Mental Health Admin	2,262	1,305	957	0	91,680	2,676	4,347	2,340	61,781	20,536
Health Care Financing Admin	0	0	0	0	78,380	0	0	0	0	78,380
Nat'l Institutes of Health	18,611	7,442	11,169	0	36,655	0	0	0	0	36,655
Office of the Secretary	0	0	0	0	5,012	0	3,007	251	1,754	0
Social Security Admin	0	0	0	0	30,708	0	0	0	0	30,708
Dept of Housing & Urban Development	90	0	90	0	7,251	0	6,107	70	450	624
Department of the Interior, total	15,351	2,998	12,353	0	4,059	1,499	0	0	1,210	1,350
Bureau of Land Management	0	0	0	0	109	99	0	0	10	0
Geological Survey	15,051	2,998	12,053	0	450	0	0	0	0	450
Nat'l Park Svc	300	0	300	0	3,500	1,400	0	0	1,200	900
Department of Justice, total	800	300	500	0	13,902	340	650	800	4,272	7,840
Bureau of Prisons 3/	0	0	0	0	1,600	50	50	0	800	700
Office of Justice Programs	800	300	500	0	12,302	290	600	800	3,472	7,140

See explanatory information, if any, and SOURCE at end of table.

Table C-32. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Department of Labor, total	0	0	0	0	25,242	0	24,242	0	0	1,000
Bureau of Labor Statistics	0	0	0	0	7,600	0	7,600	0	0	0
Employment and Training Admin	0	0	0	0	6,800	0	6,800	0	0	0
Occupational Safety & Health Admin	0	0	0	0	3,219	0	3,219	0	0	0
Office of the Secretary	0	0	0	0	4,691	0	3,691	0	0	1,000
Pension Benefit Guaranty Corporation	0	0	0	0	472	0	472	0	0	0
Pension & Welfare Benefit Admin	0	0	0	0	2,460	0	2,460	0	0	0
Department of State	0	0	0	0	5,300	393	1,216	2,014	727	950
Department of Transportation, total	19,193	2,121	13,794	3,278	8,795	0	5,318	0	2,952	525
Coast Guard	1,823	0	1,823	0	0	0	0	0	0	0
Federal Aviation Admin	7,943	0	7,943	0	0	0	0	0	0	0
Federal Highway Admin	5,634	2,121	3,513	0	398	0	398	0	0	0
Federal Railroad Admin	0	0	0	0	4,845	0	4,845	0	0	0
Nat'l Highway Traffic Safety Admin	3,278	0	0	3,278	2,952	0	0	0	2,952	0
Office of the Secretary	0	0	0	0	75	0	75	0	0	0
Research & Special Programs Admin	515	0	515	0	525	0	0	0	0	525
Department of the Treasury, total	11,178	9,501	1,677	0	9,366	0	7,146	0	0	2,220
Internal Revenue Svc	11,178	9,501	1,677	0	6,343	0	4,123	0	0	2,220
Office of Thrift Supervision 4/	0	0	0	0	3,023	0	3,023	0	0	0
Other agencies:										
Advisory Commission on Intergovernmental Relations	0	0	0	0	1,510	0	755	755	0	0
Agency for International Development	2,326	0	2,326	0	18,383	0	6,907	740	812	9,924
Appalachian Regional Commission	0	0	0	0	1,900	0	0	0	0	1,900
Environmental Protection Agency	5,510	0	5,510	0	0	0	0	0	0	0
Federal Communications Commission	115	0	115	0	293	0	271	0	0	22
Federal Trade Commission	0	0	0	0	528	0	528	0	0	0
International Trade Commission	0	0	0	0	11,720	0	11,720	0	0	0
Nat'l Aeronautics & Space Admin	78,558	23,288	47,069	8,201	150	0	43	0	107	0
Nat'l Archives & Records Admin	10	10	0	0	0	0	0	0	0	0
Nat'l Science Foundation	206,107	86,989	118,118	1,000	44,832	8,007	14,782	4,583	4,928	12,532
Smithsonian Institution	0	0	0	0	31,769	3,391	0	0	0	28,378
Tennessee Valley Authority	0	0	0	0	558	0	558	0	0	0
US Arms Control & Disarmament Agency	235	75	160	0	1,723	0	0	1,723	0	0

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ Formerly listed as Federal Prison System

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-33. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	1,212,310	293,540	811,859	106,911	717,710	18,717	188,682	17,562	168,509	324,240
Departments:										
Department of Agriculture, total	13,741	12,269	1,472	0	108,575	0	98,716	567	9,207	85
Agricultural Cooperative Svc	0	0	0	0	3,097	0	3,097	0	0	0
Agricultural Research Svc	1,635	163	1,472	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	34,031	0	26,860	0	7,171	0
Economic Research Svc	0	0	0	0	60,372	0	59,237	187	863	85
Forest Svc	8,642	8,642	0	0	11,075	0	9,522	380	1,173	0
Nat'l Agricultural Statistics Svc	3,464	3,464	0	0	0	0	0	0	0	0
Department of Commerce, total	35,109	11,560	18,393	5,156	10,286	0	3,194	4,006	2,841	245
Bureau of the Census	2,589	2,364	225	0	696	0	380	316	0	0
Nat'l Inst of Standards & Tech	22,613	4,639	12,818	5,156	258	0	258	0	0	0
Nat'l Oceanic & Atmospheric Admin	9,907	4,557	5,350	0	9,332	0	2,556	3,690	2,841	245
Department of Defense, total	516,765	46,507	425,618	44,640	1,270	0	762	0	508	0
Department of the Army	36,631	9,189	24,016	3,426	1,270	0	762	0	508	0
Department of the Navy	65,711	21,101	39,952	4,658	0	0	0	0	0	0
Department of the Air Force	60,102	5,300	27,637	27,165	0	0	0	0	0	0
Defense agencies	354,321	10,917	334,013	9,391	0	0	0	0	0	0
Department of Education	1,883	0	0	1,883	116,184	0	0	0	1,394	114,790
Department of Energy	204,707	67,056	108,226	29,425	0	0	0	0	0	0
Dept of Health & Human Svcs, total	22,069	9,266	12,803	0	283,605	2,810	7,699	2,764	135,183	135,149
Admin on Aging 1/	0	0	0	0	2,860	0	0	0	0	2,860
Admin for Children and Families 1/	0	0	0	0	16,000	0	0	0	0	16,000
Agency for Health Care Policy & Research 2/	0	0	0	0	67,948	0	0	0	67,948	0
Alcohol, Drug Abuse, & Mental Health Admin	2,384	1,391	993	0	96,966	2,810	4,565	2,503	65,406	21,682
Health Care Financing Admin	0	0	0	0	36,000	0	0	0	0	36,000
Nat'l Institutes of Health	19,685	7,875	11,810	0	38,735	0	0	0	0	38,735
Office of the Secretary	0	0	0	0	5,224	0	3,134	261	1,829	0
Social Security Admin	0	0	0	0	19,872	0	0	0	0	19,872
Dept of Housing & Urban Development	199	0	199	0	10,804	0	9,113	67	1,015	609
Department of the Interior, total	13,305	2,698	10,607	0	4,604	1,686	0	0	1,518	1,400
Bureau of Land Management	0	0	0	0	204	186	0	0	18	0
Geological Survey	13,005	2,698	10,307	0	400	0	0	0	0	400
Nat'l Park Svc	300	0	300	0	4,000	1,500	0	0	1,500	1,000
Department of Justice, total	850	325	525	0	11,855	450	350	500	4,473	6,082
Bureau of Prisons 3/	0	0	0	0	1,600	50	50	0	800	700
Office of Justice Programs	850	325	525	0	10,255	400	300	500	3,673	5,382

See explanatory information, if any, and SOURCE at end of table.

Table C-33. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Department of Labor, total	0	0	0	0	27,595	0	22,595	0	0	5,000
Bureau of Labor Statistics	0	0	0	0	8,400	0	8,400	0	0	0
Employment and Training Admin	0	0	0	0	4,000	0	4,000	0	0	0
Occupational Safety & Health Admin	0	0	0	0	3,219	0	3,219	0	0	0
Office of the Secretary	0	0	0	0	9,081	0	4,081	0	0	5,000
Pension Benefit Guaranty Corporation	0	0	0	0	535	0	535	0	0	0
Pension & Welfare Benefit Admin	0	0	0	0	2,360	0	2,360	0	0	0
Department of State	0	0	0	0	5,314	393	1,216	2,014	727	964
Department of Transportation, total	20,722	7,193	8,865	4,664	7,690	0	3,306	0	4,284	100
Coast Guard	1,970	0	1,970	0	0	0	0	0	0	0
Federal Aviation Admin	6,793	4,661	2,132	0	0	0	0	0	0	0
Federal Highway Admin	6,725	2,532	4,193	0	475	0	475	0	0	0
Federal Railroad Admin	0	0	0	0	2,756	0	2,756	0	0	0
Nat'l Highway Traffic Safety Admin	4,524	0	0	4,524	4,284	0	0	0	4,284	0
Office of the Secretary	0	0	0	0	75	0	75	0	0	0
Research & Special Programs Admin	710	0	570	140	100	0	0	0	0	100
Department of the Treasury, total	11,178	9,501	1,677	0	9,516	0	7,296	0	0	2,220
Internal Revenue Svc	11,178	9,501	1,677	0	6,343	0	4,123	0	0	2,220
Office of Thrift Supervision 4/	0	0	0	0	3,173	0	3,173	0	0	0
Other agencies:										
Advisory Commission on Intergovernmental Relations	0	0	0	0	1,481	0	740	741	0	0
Agency for International Development	2,842	0	2,842	0	14,354	0	2,891	755	1,097	9,611
Appalachian Regional Commission	0	0	0	0	900	0	0	0	0	900
Environmental Protection Agency	8,851	0	8,851	0	0	0	0	0	0	0
Federal Communications Commission	115	0	115	0	262	0	262	0	0	0
Federal Trade Commission	0	0	0	0	548	0	548	0	0	0
International Trade Commission	0	0	0	0	12,533	0	12,533	0	0	0
Nat'l Aeronautics & Space Admin	107,637	30,738	57,756	19,143	160	0	46	0	114	0
Nat'l Science Foundation	252,337	96,427	153,910	2,000	53,340	9,425	17,415	5,148	6,148	15,204
Smithsonian Institution	0	0	0	0	35,834	3,953	0	0	0	31,881
US Arms Control & Disarmament Agency	0	0	0	0	1,000	0	0	1,000	0	0

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ Formerly listed as Federal Prison System

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-34. Federal obligations for basic research, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	12,170,794	2,446,473	949,943	209,147	6,064,497	1,306,245	1,015,454	80,840	49,134	49,061
Departments:										
Department of Agriculture, total	557,578	372,758	3,406	0	173,075	0	3,902	0	895	3,542
Agricultural Research Svc	309,676	294,965	0	0	10,898	0	1,488	0	80	2,285
Cooperative State Research Svc	170,400	9,065	3,066	0	155,431	0	2,184	0	654	0
Economic Research Svc	7,612	7,366	0	0	246	0	0	0	0	0
Forest Svc	66,600	59,206	340	0	6,500	0	270	0	161	123
Nat'l Agricultural Stat Svc	1,067	1,067	0	0	0	0	0	0	0	0
Office of International Cooperation & Development	2,223	1,089	0	0	0	0	0	0	0	1,134
Department of Commerce, total	34,332	29,292	364	0	4,295	132	246	0	0	3
Bureau of the Census	2,449	241	0	0	2,208	0	0	0	0	0
Nat'l Inst of Standards & Tech	31,883	29,051	364	0	2,087	132	246	0	0	3
Department of Defense, total	994,154	298,546	78,838	5,292	545,946	12,872	20,895	23,047	1	8,717
Department of the Army	188,593	107,393	14,370	78	55,540	3,113	5,479	100	1	2,519
Department of the Navy	388,000	132,342	22,506	205	215,595	2,495	10,520	0	0	4,337
Department of the Air Force	209,225	52,602	17,733	0	111,048	46	3,535	22,400	0	1,861
Defense agencies	208,336	6,209	24,229	5,009	163,763	7,218	1,361	547	0	0
Department of Education	8,552	621	0	0	4,631	0	3,300	0	0	0
Department of Energy	1,686,453	59,578	25,734	192,943	395,483	847,783	112,251	51,301	340	1,040
Dept of Health & Human Svcs, total	5,050,114	901,846	171,770	8,456	3,167,998	17,109	710,675	5,056	41,851	25,353
Alcohol, Drug Abuse, & Mental Health Admin	459,093	127,643	5,390	0	262,340	115	50,924	0	11,335	1,346
Health Resources and Svcs Admin	1,521	1,521	0	0	0	0	0	0	0	0
Nat'l Institutes of Health	4,589,500	772,682	166,380	8,456	2,905,658	16,994	659,751	5,056	30,516	24,007

See explanatory information, if any, and SOURCE at end of table.

Table C-34. Federal obligations for basic research, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of the Interior, total	229,294	192,586	3,919	1,779	27,315	0	965	0	2,667	63
Bureau of Land Management	1,097	110	0	0	987	0	0	0	0	0
Bureau of Mines	42,792	30,044	2,504	1,779	8,465	0	0	0	0	0
Bureau of Reclamation	100	100	0	0	0	0	0	0	0	0
Geological Survey	179,105	159,077	1,415	0	14,918	0	965	0	2,667	63
US Fish & Wildlife Svc	6,200	3,255	0	0	2,945	0	0	0	0	0
Department of Justice, total	6,386	29	544	0	2,188	0	3,400	0	225	0
Office of Justice Programs	6,386	29	544	0	2,188	0	3,400	0	225	0
Department of Labor, total	300	30	0	0	0	0	270	0	0	0
Employment and Training Admin	300	30	0	0	0	0	270	0	0	0
Department of State	4,598	82	0	0	0	0	4,516	0	0	0
Department of the Treasury, total	3,576	2,390	1,186	0	0	0	0	0	0	0
Internal Revenue Svc	3,576	2,390	1,186	0	0	0	0	0	0	0
Department of Veterans Affairs	16,100	16,100	0	0	0	0	0	0	0	0
Other agencies:										
Agency for International Development	5,684	169	0	0	1,421	0	3,671	0	0	423
Environmental Protection Agency	91,224	16,004	37,732	0	37,413	75	0	0	0	0
Library of Congress	373	373	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	1,705,575	443,568	530,970	0	357,838	317,164	50,042	1,131	1,091	3,771
Nat'l Archives & Records Admin	356	356	0	0	0	0	0	0	0	0
Nat'l Science Foundation	1,676,205	12,287	95,480	677	1,346,812	111,110	101,321	305	2,064	6,149
Smithsonian Institution	97,999	97,999	0	0	0	0	0	0	0	0
Tennessee Valley Authority	1,941	1,859	0	0	82	0	0	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-35. Federal obligations for basic research, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	13,254,058	2,705,294	1,040,602	221,437	6,602,674	1,387,107	1,120,043	69,669	55,675	51,557
Departments:										
Department of Agriculture, total	614,417	407,675	3,454	0	196,370	0	4,156	0	786	1,976
Agricultural Research Svc	337,439	322,364	0	0	11,452	0	1,653	0	88	1,882
Cooperative State Research Svc	194,781	9,675	3,195	0	179,039	0	2,297	0	575	0
Economic Research Svc	8,221	7,983	0	0	238	0	0	0	0	0
Forest Svc	71,700	65,377	259	0	5,641	0	206	0	123	94
Nat'l Agricultural Stat Svc	1,126	1,126	0	0	0	0	0	0	0	0
Office of International Cooperation & Development	1,150	1,150	0	0	0	0	0	0	0	0
Department of Commerce, total	34,915	31,032	409	0	3,093	132	246	0	0	3
Bureau of the Census	1,298	298	0	0	1,000	0	0	0	0	0
Nat'l Inst of Standards & Tech	33,617	30,734	409	0	2,093	132	246	0	0	3
Department of Defense, total	1,094,438	293,338	106,274	597	648,819	11,026	25,068	662	1	8,653
Department of the Army	191,134	103,351	14,216	74	60,689	4,478	6,002	0	1	2,323
Department of the Navy	394,000	126,111	27,008	205	220,833	1,748	13,620	0	0	4,475
Department of the Air Force	173,796	48,484	18,286	0	102,016	28	3,251	0	0	1,731
Defense agencies	335,508	15,392	46,764	318	265,281	4,772	2,195	662	0	124
Department of Education	6,293	403	0	0	4,575	0	1,315	0	0	0
Department of Energy	1,808,626	60,210	46,834	208,230	422,529	908,338	101,785	58,822	636	1,242
Dept of Health & Human Svcs, total	5,511,449	1,032,918	197,601	10,112	3,355,220	19,767	810,589	8,751	47,292	29,199
Alcohol, Drug Abuse, & Mental Health Admin	490,464	138,944	5,881	0	280,447	126	51,601	0	12,094	1,391
Health Resources and Svcs Admin	1,585	1,585	0	0	0	0	0	0	0	0
Nat'l Institutes of Health	5,019,400	892,389	191,740	10,112	3,074,773	19,641	758,988	8,751	35,198	27,808

See explanatory information, if any, and SOURCE at end of table.

Table C-35. Federal obligations for basic research, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of the Interior, total	232,233	200,738	873	1,785	25,007	0	873	0	2,924	33
Bureau of Land Management	1,572	157	0	0	1,415	0	0	0	0	0
Bureau of Mines	44,495	35,047	0	1,785	7,663	0	0	0	0	0
Geological Survey	180,066	162,435	873	0	12,928	0	873	0	2,924	33
US Fish & Wildlife Svc	6,100	3,099	0	0	3,001	0	0	0	0	0
Department of Justice, total	5,111	150	300	0	1,930	0	2,481	0	250	0
Office of Justice Programs	5,111	150	300	0	1,930	0	2,481	0	250	0
Department of Labor, total	379	109	0	0	270	0	0	0	0	0
Employment and Training Admin	300	30	0	0	270	0	0	0	0	0
Pension Benefit Guaranty Corporation	79	79	0	0	0	0	0	0	0	0
Department of State	4,869	85	0	0	0	0	4,784	0	0	0
Department of the Treasury, total	3,576	2,390	1,186	0	0	0	0	0	0	0
Internal Revenue Svc	3,576	2,390	1,186	0	0	0	0	0	0	0
Department of Veterans Affairs	15,700	15,700	0	0	0	0	0	0	0	0
Other agencies:										
Agency for International Development	4,967	183	0	0	1,064	0	3,315	0	0	405
Environmental Protection Agency	102,886	11,326	40,584	0	50,876	100	0	0	0	0
Library of Congress	454	454	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	1,902,730	534,038	559,403	0	423,733	324,031	55,640	1,091	1,124	3,670
Nat'l Archives & Records Admin	150	150	0	0	0	0	0	0	0	0
Nat'l Science Foundation	1,808,615	12,217	83,684	713	1,469,116	123,713	109,791	343	2,662	6,376
Smithsonian Institution	100,000	100,000	0	0	0	0	0	0	0	0
Tennessee Valley Authority	2,250	2,178	0	0	72	0	0	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-36. Federal obligations for basic research, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	14,184,333	2,892,927	1,103,578	227,490	7,069,613	1,468,487	1,228,308	79,080	59,364	55,486
Departments:										
Department of Agriculture, total	642,159	416,321	3,353	0	215,437	0	4,281	0	787	1,980
Agricultural Research Svc	351,371	335,573	0	0	12,053	0	1,769	0	94	1,882
Cooperative State Research Svc	212,705	9,492	3,083	0	197,268	0	2,297	0	565	0
Economic Research Svc	8,452	8,214	0	0	238	0	0	0	0	0
Forest Svc	67,500	60,911	270	0	5,878	0	215	0	128	98
Nat'l Agricultural Stat Svc	1,140	1,140	0	0	0	0	0	0	0	0
Office of International Cooperation & Development	991	991	0	0	0	0	0	0	0	0
Department of Commerce, total	39,525	35,756	465	0	2,923	132	246	0	0	3
Bureau of the Census	1,094	294	0	0	800	0	0	0	0	0
Nat'l Inst of Standards & Tech	38,431	35,462	465	0	2,123	132	246	0	0	3
Department of Defense, total	1,161,832	333,111	94,103	703	681,848	10,962	30,527	0	1	10,577
Department of the Army	174,170	81,971	13,772	100	63,276	6,429	6,305	0	1	2,316
Department of the Navy	471,000	151,076	29,439	205	267,461	1,029	17,168	0	0	4,622
Department of the Air Force	185,476	51,724	18,480	0	109,634	0	3,499	0	0	2,139
Defense agencies	272,617	2,771	30,912	398	233,977	3,504	1,055	0	0	0
Health Affairs, Assistant Secretary of Defense for	58,569	45,569	1,500	0	7,500	0	2,500	0	0	1,500
Department of Education	6,492	351	0	0	5,334	0	807	0	0	0
Department of Energy	1,873,414	57,233	35,628	215,139	405,188	970,636	120,050	68,191	415	934
Dept of Health & Human Svcs, total	5,848,617	1,113,012	212,390	10,875	3,530,006	21,257	869,864	9,411	50,476	31,326
Alcohol, Drug Abuse, & Mental Health Admin	519,223	151,918	6,187	0	293,310	135	53,628	0	12,625	1,420
Health Resources and Svcs Admin	1,394	1,394	0	0	0	0	0	0	0	0
Nat'l Institutes of Health	5,328,000	959,700	206,203	10,875	3,236,696	21,122	816,236	9,411	37,851	29,906

See explanatory information, if any, and SOURCE at end of table.

Table C-36. Federal obligations for basic research, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of the Interior, total	194,758	178,638	800	0	12,220	0	600	0	2,500	0
Bureau of Land Management	2,141	214	0	0	1,927	0	0	0	0	0
Bureau of Mines	26,811	26,811	0	0	0	0	0	0	0	0
Geological Survey	159,906	148,563	800	0	7,443	0	600	0	2,500	0
US Fish & Wildlife Svc	5,900	3,050	0	0	2,850	0	0	0	0	0
Department of Justice, total	2,989	200	350	0	1,050	0	1,089	0	300	0
Office of Justice Programs	2,989	200	350	0	1,050	0	1,089	0	300	0
Department of Labor, total	200	30	0	0	170	0	0	0	0	0
Employment and Training Admin	200	30	0	0	170	0	0	0	0	0
Department of State	4,872	88	0	0	0	0	4,784	0	0	0
Department of the Treasury, total	3,576	2,390	1,186	0	0	0	0	0	0	0
Internal Revenue Svc	3,576	2,390	1,186	0	0	0	0	0	0	0
Department of Veterans Affairs	13,100	13,100	0	0	0	0	0	0	0	0
Other agencies:										
Agency for International Development	4,653	50	0	0	462	0	4,141	0	0	0
Environmental Protection Agency	115,912	12,166	51,303	0	52,343	100	0	0	0	0
Library of Congress	460	460	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	2,060,152	597,444	613,287	0	452,563	330,831	60,244	1,073	1,111	3,599
Nat'l Archives & Records Admin	50	50	0	0	0	0	0	0	0	0
Nat'l Science Foundation	2,093,572	14,527	90,713	773	1,710,069	134,569	131,675	405	3,774	7,067
Smithsonian Institution	118,000	118,000	0	0	0	0	0	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-37. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Field of science and engineering	1991	Estimates	
		1992	1993
Total, all fields	12,170,794	13,254,058	14,184,333
Life sciences, total	5,433,552	6,145,452	6,621,556
Biological (excluding environmental)	2,868,497	3,214,197	3,475,500
Environmental biology	186,938	206,428	222,446
Agricultural	319,419	352,632	372,934
Medical	1,857,739	2,144,954	2,298,788
Life sciences, n.e.c	200,959	227,241	251,888
Psychology, total	225,520	248,788	264,939
Biological aspects	68,228	75,087	84,537
Social aspects	69,227	75,639	79,046
Psychological sciences, n.e.c.	88,065	98,062	101,356
Physical sciences, total	2,881,462	3,062,775	3,248,790
Astronomy	612,311	698,472	782,325
Chemistry	538,731	580,813	629,498
Physics	1,644,949	1,662,612	1,709,064
Physical sciences, n.e.c.	85,471	120,878	127,903
Environmental sciences, total	1,263,526	1,386,712	1,510,258
Atmospheric	448,972	513,647	577,672
Geological	499,000	535,367	555,719
Oceanography	197,536	211,397	236,622
Environmental sciences, n.e.c.	118,018	126,301	140,245
Mathematics & computer sciences, total	426,107	513,303	562,922
Mathematics	164,387	202,748	214,931
Computer sciences	223,516	274,553	312,892
Mathematics & computer sciences, n.e.c.	38,204	36,002	35,099
Engineering, total	1,233,711	1,396,934	1,430,809
Aeronautical	256,223	283,776	314,975
Astronautical	69,651	75,200	82,727
Chemical	101,672	112,033	105,037
Civil	59,251	60,770	62,531
Electrical	142,457	169,495	180,015
Mechanical	115,561	134,236	149,044
Metallurgy & materials	294,558	304,465	330,313
Engineering, n.e.c.	194,338	256,959	206,167
Social sciences, total	161,276	161,419	171,970
Anthropology	12,701	12,794	14,610
Economics	37,324	39,956	39,500
Political science	7,064	7,128	7,653
Sociology	28,241	29,120	30,690
Social sciences, n.e.c.	75,946	72,421	79,517
Other sciences, n.e.c.	545,640	338,675	373,089

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-38. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	12,170,794	5,433,552	225,520	2,881,462	1,263,526	426,107	1,233,711	161,276	545,640
Departments:									
Department of Agriculture, total	557,578	468,810	127	38,778	6,507	5,014	14,922	23,420	0
Agricultural Research Svc	309,676	278,179	0	26,898	1,725	610	2,264	0	0
Cooperative State Research Svc	170,400	145,465	0	7,058	300	0	6,045	11,532	0
Economic Research Svc	7,612	0	0	0	0	0	0	7,612	0
Forest Svc	66,600	42,943	127	4,822	4,482	3,337	6,613	4,276	0
Nat'l Agricultural Statistics Svc	1,067	0	0	0	0	1,067	0	0	0
Office of International Cooperation & Development	2,223	2,223	0	0	0	0	0	0	0
Department of Commerce, total	34,332	0	464	24,795	175	2,350	6,548	0	0
Bureau of the Census	2,449	0	464	0	0	1,985	0	0	0
Nat'l Inst of Standards & Tech	31,883	0	0	24,795	175	365	6,548	0	0
Department of Defense, total	994,154	115,725	25,310	180,311	152,295	132,439	360,671	824	26,579
Department of the Army	188,593	51,849	5,874	38,662	12,473	17,320	62,195	0	220
Department of the Navy	388,000	30,647	15,803	77,422	109,467	38,113	112,970	0	3,578
Department of the Air Force	209,225	21,002	0	41,122	18,841	22,526	83,334	0	22,400
Defense agencies	208,336	12,227	3,633	23,105	11,514	54,480	102,172	824	381
Department of Education	8,552	1,440	0	0	0	0	0	7,112	0
Department of Energy	1,686,453	161,078	0	1,167,187	124,909	59,958	172,177	0	1,144
Dept of Health & Human Svcs, total	5,050,114	4,278,276	195,043	109,970	0	11,228	53,160	52,255	350,182
Alcohol, Drug Abuse, & Mental Health Admin	459,093	271,640	126,666	4,542	0	645	674	34,116	20,810
Health Resources and Svcs Admin	1,521	1,521	0	0	0	0	0	0	0
Nat'l Institutes of Health	4,589,500	4,005,115	68,377	105,428	0	10,583	52,486	18,139	329,372
Department of the Interior, total	229,294	6,400	0	12,817	169,182	3,857	36,738	300	0
Bureau of Land Management	1,097	0	0	0	1,097	0	0	0	0
Bureau of Mines	42,792	0	0	0	6,154	0	36,638	0	0
Bureau of Reclamation	100	0	0	0	0	0	100	0	0
Geological Survey	179,105	200	0	12,817	161,931	3,857	0	300	0
US Fish & Wildlife Svc	6,200	6,200	0	0	0	0	0	0	0
Department of Justice, total	6,386	442	11	0	0	350	0	4,700	883
Office of Justice Programs	6,386	442	11	0	0	350	0	4,700	883
Department of Labor, total	300	0	0	0	0	0	0	300	0
Employment and Training Admin	300	0	0	0	0	0	0	300	0
Department of State	4,598	0	0	0	0	0	0	4,598	0
Department of the Treasury, total	3,576	0	0	0	0	2,281	0	1,295	0
Internal Revenue Svc	3,576	0	0	0	0	2,281	0	1,295	0
Department of Veterans Affairs	16,100	15,693	407	0	0	0	0	0	0
Other agencies:									
Agency for International Development	5,684	4,517	0	0	0	0	0	744	423
Environmental Protection Agency	91,224	38,741	144	14,815	14,094	3,707	19,723	0	0
Library of Congress	373	0	0	0	0	0	0	0	373
Nat'l Aeronautics & Space Admin	1,705,575	45,117	2,323	853,527	400,397	27,574	363,401	90	13,146
Nat'l Archives & Records Admin	356	0	0	356	0	0	0	0	0
Nat'l Science Foundation	1,676,205	260,299	1,691	456,039	388,779	177,349	206,371	33,097	152,580
Smithsonian Institution	97,999	35,484	0	22,786	7,188	0	0	32,541	0
Tennessee Valley Authority	1,941	1,530	0	81	0	0	0	0	330

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-39. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	13,254,058	6,145,452	248,788	3,062,775	1,386,712	513,303	1,396,934	161,419	338,675
Departments:									
Department of Agriculture, total	614,417	519,192	136	41,867	6,913	5,281	16,179	24,849	0
Agricultural Research Svc	337,439	303,841	0	28,948	1,778	563	2,309	0	0
Cooperative State Research Svc	194,781	167,969	0	7,728	310	0	6,750	12,024	0
Economic Research Svc	8,221	0	0	0	0	0	0	8,221	0
Forest Svc	71,700	46,232	136	5,191	4,825	3,592	7,120	4,604	0
Nat'l Agricultural Statistics Svc	1,126	0	0	0	0	1,126	0	0	0
Office of International Cooperation & Development	1,150	1,150	0	0	0	0	0	0	0
Department of Commerce, total	34,915	0	246	25,906	125	1,578	7,060	0	0
Bureau of the Census	1,298	0	246	0	0	1,052	0	0	0
Nat'l Inst of Standards & Tech	33,617	0	0	25,906	125	526	7,060	0	0
Department of Defense, total	1,094,438	128,316	27,983	192,375	157,900	167,472	413,124	0	7,268
Department of the Army	191,134	53,797	6,992	38,495	12,294	17,906	61,418	0	232
Department of the Navy	394,000	31,666	15,791	75,117	114,971	37,914	115,485	0	3,056
Department of the Air Force	173,796	18,619	0	40,729	17,329	21,119	76,000	0	0
Defense agencies	335,508	24,234	5,200	38,034	13,306	90,533	160,221	0	3,980
Department of Education	6,293	1,440	0	0	0	0	0	4,853	0
Department of Energy	1,808,626	173,181	0	1,198,160	137,218	89,196	209,545	0	1,326
Dept of Health & Human Svcs, total	5,511,449	4,882,753	214,913	115,654	0	12,859	61,027	54,384	169,859
Alcohol, Drug Abuse, & Mental Health Admin	490,464	292,884	136,410	4,926	0	712	744	33,553	21,235
Health Resources and Svcs Admin	1,585	1,585	0	0	0	0	0	0	0
Nat'l Institutes of Health	5,019,400	4,588,284	78,503	110,728	0	12,147	60,283	20,831	148,624
Department of the Interior, total	232,233	6,300	0	12,510	171,959	3,787	37,377	300	0
Bureau of Land Management	1,572	0	0	0	1,572	0	0	0	0
Bureau of Mines	44,495	0	0	0	7,118	0	37,377	0	0
Geological Survey	180,066	200	0	12,510	163,269	3,787	0	300	0
US Fish & Wildlife Svc	6,100	6,100	0	0	0	0	0	0	0
Department of Justice, total	5,111	300	450	0	0	250	0	2,331	1,780
Office of Justice Programs	5,111	300	450	0	0	250	0	2,331	1,780
Department of Labor, total	379	0	0	0	0	0	0	379	0
Employment and Training Admin	300	0	0	0	0	0	0	300	0
Pension Benefit Guaranty Corporation	79	0	0	0	0	0	0	79	0
Department of State	4,869	0	0	0	0	0	0	4,869	0
Department of the Treasury, total	3,576	0	0	0	0	2,281	0	1,295	0
Internal Revenue Svc	3,576	0	0	0	0	2,281	0	1,295	0
Department of Veterans Affairs	15,700	15,385	315	0	0	0	0	0	0
Other agencies:									
Agency for International Development	4,967	3,953	0	0	0	0	0	900	114
Environmental Protection Agency	102,886	40,662	217	18,643	15,467	4,608	23,289	0	0
Library of Congress	454	0	0	0	0	0	0	0	454
Nat'l Aeronautics & Space Admin	1,902,730	56,901	2,751	932,566	459,603	30,424	404,813	107	15,565
Nat'l Archives & Records Admin	150	0	0	150	0	0	0	0	0
Nat'l Science Foundation	1,808,615	280,988	1,777	497,958	430,403	195,567	224,520	35,383	142,019
Smithsonian Institution	100,000	34,219	0	26,888	7,124	0	0	31,769	0
Tennessee Valley Authority	2,250	1,862	0	98	0	0	0	0	290

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-40. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	14,184,333	6,621,556	264,939	3,248,790	1,510,258	562,922	1,430,809	171,970	373,089
Departments:									
Department of Agriculture, total	642,159	549,248	128	42,336	6,710	5,109	15,602	23,026	0
Agricultural Research Svc	351,371	316,385	0	30,144	1,851	587	2,404	0	0
Cooperative State Research Svc	212,705	188,348	0	7,305	317	0	6,496	10,239	0
Economic Research Svc	8,452	0	0	0	0	0	0	8,452	0
Forest Svc	67,500	43,524	128	4,887	4,542	3,382	6,702	4,335	0
Nat'l Agricultural Statistics Svc	1,140	0	0	0	0	1,140	0	0	0
Office of International Cooperation & Development	991	991	0	0	0	0	0	0	0
Department of Commerce, total	39,525	0	207	28,258	178	1,742	9,140	0	0
Bureau of the Census	1,094	0	207	0	0	887	0	0	0
Nat'l Inst of Standards & Tech	38,431	0	0	28,258	178	855	9,140	0	0
Department of Defense, total	1,161,832	177,272	30,666	185,593	184,428	157,100	416,606	0	10,167
Department of the Army	174,170	48,219	6,555	36,220	15,477	15,466	51,644	0	589
Department of the Navy	471,000	33,811	19,024	86,167	138,547	44,296	140,115	0	9,040
Department of the Air Force	185,476	20,738	0	40,558	18,605	22,243	83,332	0	0
Defense agencies	272,617	15,935	5,087	22,648	11,799	75,095	141,515	0	538
Health Affairs, Assistant Secretary of Defense for	58,569	58,569	0	0	0	0	0	0	0
Department of Education	6,492	1,440	0	0	0	0	0	5,052	0
Department of Energy	1,873,414	197,883	0	1,255,051	169,899	98,982	150,259	0	1,340
Dept of Health & Human Svcs, total	5,848,617	5,182,120	227,848	122,803	0	13,653	64,782	57,489	179,922
Alcohol, Drug Abuse, & Mental Health Admin	519,223	310,348	144,518	5,214	0	759	793	35,378	22,213
Health Resources and Svcs Admin	1,394	1,394	0	0	0	0	0	0	0
Nat'l Institutes of Health	5,328,000	4,870,378	83,330	117,589	0	12,894	63,989	22,111	157,709
Department of the Interior, total	194,758	6,100	0	9,585	152,798	3,113	22,862	300	0
Bureau of Land Management	2,141	0	0	0	2,141	0	0	0	0
Bureau of Mines	26,811	0	0	0	3,949	0	22,862	0	0
Geological Survey	159,906	200	0	9,585	146,708	3,113	0	300	0
US Fish & Wildlife Svc	5,900	5,900	0	0	0	0	0	0	0
Department of Justice, total	2,989	200	500	0	0	200	0	2,089	0
Office of Justice Programs	2,989	200	500	0	0	200	0	2,089	0
Department of Labor, total	200	0	0	0	0	0	0	200	0
Employment and Training Admin	200	0	0	0	0	0	0	200	0
Department of State	4,872	0	0	0	0	0	0	4,872	0
Department of the Treasury, total	3,576	0	0	0	0	2,281	0	1,295	0
Internal Revenue Svc	3,576	0	0	0	0	2,281	0	1,295	0
Department of Veterans Affairs	13,100	12,768	332	0	0	0	0	0	0
Other agencies:									
Agency for International Development	4,653	4,547	0	0	0	0	0	106	0
Environmental Protection Agency	115,912	51,265	259	23,300	13,208	7,932	19,950	0	0
Library of Congress	460	0	0	0	0	0	0	0	460
Nat'l Aeronautics & Space Admin	2,060,152	66,791	2,938	1,000,333	477,041	34,447	461,864	114	16,624
Nat'l Archives & Records Admin	50	0	0	50	0	0	0	0	0
Nat'l Science Foundation	2,093,572	329,696	2,061	549,872	497,667	238,363	269,744	41,593	164,576
Smithsonian Institution	118,000	42,226	0	31,609	8,331	0	0	35,834	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-41. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	225,520	68,228	69,227	88,065	5,433,552	2,868,497	186,938	319,419	1,857,739	200,959
Departments:										
Department of Agriculture, total	127	0	127	0	468,810	75,233	67,501	312,423	13,653	0
Agricultural Research Svc	0	0	0	0	278,179	22,337	18,744	229,024	8,074	0
Cooperative State Research Svc	0	0	0	0	145,465	35,900	22,810	81,176	5,579	0
Forest Svc	127	0	127	0	42,943	16,996	25,947	0	0	0
Office of International Cooperation & Development	0	0	0	0	2,223	0	0	2,223	0	0
Department of Commerce, total	464	0	464	0	0	0	0	0	0	0
Bureau of the Census	464	0	464	0	0	0	0	0	0	0
Department of Defense, total	25,310	7,895	10,841	6,574	115,725	45,239	10,396	0	60,090	0
Department of the Army	5,874	115	3,361	2,398	51,849	4,425	421	0	47,003	0
Department of the Navy	15,803	7,780	5,847	2,176	30,647	10,962	8,277	0	11,408	0
Department of the Air Force	0	0	0	0	21,002	21,002	0	0	0	0
Defense agencies	3,633	0	1,633	2,000	12,227	8,850	1,698	0	1,679	0
Department of Education	0	0	0	0	1,440	0	0	0	0	1,440
Department of Energy	0	0	0	0	161,078	147,572	189	178	0	13,139
Dept of Health & Human Svcs, total	195,043	59,206	56,781	79,056	4,278,276	2,339,903	808	1,276	1,760,866	175,423
Alcohol, Drug Abuse, & Mental Health Admin	126,666	59,206	56,781	10,679	271,640	183,434	638	1,276	72,328	13,964
Health Resources and Svcs Admin	0	0	0	0	1,521	0	0	0	1,521	0
Nat'l Institutes of Health	68,377	0	0	68,377	4,005,115	2,156,469	170	0	1,687,017	161,459
Department of the Interior, total	0	0	0	0	6,400	4,340	1,960	100	0	0
Geological Survey	0	0	0	0	200	0	100	100	0	0
US Fish & Wildlife Svc	0	0	0	0	6,200	4,340	1,860	0	0	0
Department of Justice, total	11	0	0	11	442	0	0	0	0	442
Office of Justice Programs	11	0	0	11	442	0	0	0	0	442
Department of Veterans Affairs	407	407	0	0	15,693	2,864	0	0	12,829	0
Other agencies:										
Agency for International Development	0	0	0	0	4,517	0	514	900	0	3,103
Environmental Protection Agency	144	0	144	0	38,741	26,783	4,278	2,560	5,120	0
Nat'l Aeronautics & Space Admin	2,323	71	563	1,689	45,117	29,607	3,723	452	5,181	6,154
Nat'l Science Foundation	1,691	649	307	735	260,299	180,586	78,455	0	0	1,258
Smithsonian Institution	0	0	0	0	35,484	16,370	19,114	0	0	0
Tennessee Valley Authority	0	0	0	0	1,530	0	0	1,530	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-42. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	248,788	75,087	75,639	98,062	6,145,452	3,214,197	206,429	352,632	2,144,954	227,241
Departments:										
Department of Agriculture, total	136	0	136	0	519,192	84,348	74,471	345,528	14,845	0
Agricultural Research Svc	0	0	0	0	303,841	23,072	21,007	250,791	8,971	0
Cooperative State Research Svc	0	0	0	0	167,969	42,978	25,530	93,587	5,874	0
Forest Svc	136	0	136	0	46,232	18,298	27,934	0	0	0
Office of International Cooperation & Development	0	0	0	0	1,150	0	0	1,150	0	0
Department of Commerce, total	246	0	246	0	0	0	0	0	0	0
Bureau of the Census	246	0	246	0	0	0	0	0	0	0
Department of Defense, total	27,983	9,189	11,164	7,630	128,316	46,435	16,293	0	65,588	0
Department of the Army	6,992	144	3,418	3,430	53,797	4,947	205	0	48,645	0
Department of the Navy	15,791	7,656	5,935	2,200	31,666	12,396	8,246	0	11,024	0
Department of the Air Force	0	0	0	0	18,619	18,619	0	0	0	0
Defense agencies	5,200	1,389	1,811	2,000	24,234	10,473	7,842	0	5,919	0
Department of Education	0	0	0	0	1,440	0	0	0	0	1,440
Department of Energy	0	0	0	0	173,181	159,830	180	175	0	12,996
Dept of Health & Human Svcs, total	214,913	64,663	62,623	87,627	4,882,753	2,641,455	852	1,302	2,038,587	200,557
Alcohol, Drug Abuse, & Mental Health Admin	130,410	64,312	60,565	11,533	292,884	197,008	651	1,302	78,783	15,140
Health Resources and Svcs Admin	0	0	0	0	1,585	0	0	0	1,585	0
Nat'l Institutes of Health	78,503	351	2,058	76,094	4,588,284	2,444,447	201	0	1,958,219	185,417
Department of the Interior, total	0	0	0	0	6,300	3,782	2,418	100	0	0
Geological Survey	0	0	0	0	200	0	100	100	0	0
US Fish & Wildlife Svc	0	0	0	0	6,100	3,782	2,318	0	0	0
Department of Justice, total	450	200	250	0	300	300	0	0	0	0
Office of Justice Programs	450	200	250	0	300	300	0	0	0	0
Department of Veterans Affairs	315	315	0	0	15,385	2,525	0	0	12,860	0
Other agencies:										
Agency for International Development	0	0	0	0	3,953	0	405	401	0	3,147
Environmental Protection Agency	217	0	217	0	40,682	23,464	5,530	2,729	6,939	0
Nat'l Aeronautics & Space Admin	2,751	84	667	2,000	56,901	40,142	2,802	535	6,135	7,287
Nat'l Science Foundation	1,777	636	336	805	280,988	194,560	84,614	0	0	1,814
Smithsonian Institution	0	0	0	0	34,219	15,356	18,863	0	0	0
Tennessee Valley Authority	0	0	0	0	1,862	0	0	1,862	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-43. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	264,939	84,537	79,046	101,356	6,621,556	3,475,500	222,446	372,934	2,298,788	251,888
Departments:										
Department of Agriculture, total	128	0	128	0	549,248	98,680	71,767	366,758	12,043	0
Agricultural Research Svc	0	0	0	0	316,385	24,024	21,875	261,145	9,341	0
Cooperative State Research Svc	0	0	0	0	188,348	57,430	23,594	104,622	2,702	0
Forest Svc	128	0	128	0	43,524	17,226	26,298	0	0	0
Office of International Cooperation & Development	0	0	0	0	991	0	0	991	0	0
Department of Commerce, total	207	0	207	0	0	0	0	0	0	0
Bureau of the Census	207	0	207	0	0	0	0	0	0	0
Department of Defense, total	30,666	14,538	10,826	5,302	177,272	49,751	14,533	0	112,988	0
Department of the Army	6,555	144	3,742	2,669	48,219	4,812	305	0	43,102	0
Department of the Navy	19,024	9,613	6,778	2,633	33,811	16,781	9,406	0	7,624	0
Department of the Air Force	0	0	0	0	20,738	20,738	0	0	0	0
Defense agencies	5,087	4,781	306	0	15,935	7,420	4,822	0	3,693	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	58,569	0	0	0	58,569	0
Department of Education	0	0	0	0	1,440	0	0	0	0	1,440
Department of Energy	0	0	0	0	197,883	184,203	200	190	0	13,290
Dept of Health & Human Svcs, total	227,848	68,645	66,232	92,971	5,182,120	2,803,258	894	1,363	2,163,716	212,889
Alcohol, Drug Abuse, & Mental Health Admin	144,518	68,272	64,048	12,198	310,348	208,522	681	1,363	83,709	16,073
Health Resources and Svcs Admin	0	0	0	0	1,394	0	0	0	1,394	0
Nat'l Institutes of Health	83,330	373	2,184	80,773	4,870,378	2,594,736	213	0	2,078,613	196,816
Department of the Interior, total	0	0	0	0	6,100	4,130	1,870	100	0	0
Geological Survey	0	0	0	0	200	0	100	100	0	0
US Fish & Wildlife Svc	0	0	0	0	5,900	4,130	1,770	0	0	0
Department of Justice, total	500	200	300	0	200	200	0	0	0	0
Office of Justice Programs	500	200	300	0	200	200	0	0	0	0
Department of Veterans Affairs	332	332	0	0	12,768	2,052	0	0	0	10,716
Other agencies:										
Agency for International Development	0	0	0	0	4,547	0	405	462	0	3,680
Environmental Protection Agency	259	0	259	0	51,265	38,610	5,677	3,489	3,489	0
Nat'l Aeronautics & Space Admin	2,938	90	712	2,136	66,791	47,189	4,695	572	6,552	7,783
Nat'l Science Foundation	2,061	732	382	947	329,696	227,874	99,732	0	0	2,090
Smithsonian Institution	0	0	0	0	42,226	19,553	22,673	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-44. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	2,881,462	612,311	538,731	1,644,949	85,471	1,263,526	448,972	499,000	197,536	118,018
Departments:										
Department of Agriculture, total	38,778	0	36,988	1,790	0	6,507	2,741	3,766	0	0
Agricultural Research Svc	26,898	0	26,021	877	0	1,725	1,615	110	0	0
Cooperative State Research Svc	7,058	0	7,058	0	0	300	300	0	0	0
Forest Svc	4,822	0	3,909	913	0	4,482	826	3,656	0	0
Department of Commerce, total	24,795	302	10,326	14,122	45	175	0	175	0	0
Nat'l Inst of Standards & Tech	24,795	302	10,326	14,122	45	175	0	175	0	0
Department of Defense, total	180,311	4,951	68,638	97,605	9,117	152,295	29,040	47,854	73,974	1,427
Department of the Army	38,662	0	14,619	17,511	6,532	12,473	7,661	3,298	87	1,427
Department of the Navy	77,422	4,951	26,234	45,994	243	109,467	12,625	30,558	66,284	0
Department of the Air Force	41,122	0	24,801	16,321	0	18,841	5,401	13,440	0	0
Defense agencies	23,105	0	2,984	17,779	2,342	11,514	3,353	558	7,603	0
Department of Energy	1,167,187	0	126,687	1,039,085	1,415	124,909	68,302	50,378	4,808	1,421
Dept of Health & Human Svcs, total	109,970	0	94,052	15,918	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	4,542	0	4,518	24	0	0	0	0	0	0
Nat'l Institutes of Health	105,428	0	89,534	15,894	0	0	0	0	0	0
Department of the Interior, total	12,817	0	10,187	2,630	0	169,182	1,029	145,530	16,381	6,242
Bureau of Land Management	0	0	0	0	0	1,097	329	0	0	768
Bureau of Mines	0	0	0	0	0	6,154	0	680	0	5,474
Geological Survey	12,817	0	10,187	2,630	0	161,931	700	144,850	16,381	0
Other agencies:										
Environmental Protection Agency	14,815	0	13,531	1,284	0	14,094	14,094	0	0	0
Nat'l Aeronautics & Space Admin	853,527	482,649	30,868	276,513	63,497	400,397	212,784	114,928	25,746	46,939
Nat'l Archives & Records Admin	356	0	206	150	0	0	0	0	0	0
Nat'l Science Foundation	456,039	101,623	147,167	195,852	11,397	388,779	120,911	131,245	74,634	61,989
Smithsonian Institution	22,786	22,786	0	0	0	7,188	71	5,124	1,993	0
Tennessee Valley Authority	81	0	81	0	0	0	0	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-45. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	3,062,775	698,472	580,813	1,662,612	120,878	1,386,712	513,647	535,367	211,397	126,301
Departments:										
Department of Agriculture, total	41,867	0	39,800	2,067	0	6,913	2,860	4,053	0	0
Agricultural Research Svc	28,948	0	27,863	1,085	0	1,778	1,661	117	0	0
Cooperative State Research Svc	7,728	0	7,728	0	0	310	310	0	0	0
Forest Svc	5,191	0	4,209	982	0	4,825	889	3,936	0	0
Department of Commerce, total	25,906	315	11,024	14,468	99	125	0	125	0	0
Nat'l Inst of Standards & Tech	25,906	315	11,024	14,468	99	125	0	125	0	0
Department of Defense, total	192,375	5,244	74,501	90,787	21,843	157,900	29,541	46,725	75,322	6,312
Department of the Army	38,495	0	13,982	18,158	6,355	12,294	7,663	2,886	49	1,696
Department of the Navy	75,117	5,244	25,327	44,333	213	114,971	13,394	32,716	68,861	0
Department of the Air Force	40,729	0	23,642	17,087	0	17,329	7,125	10,204	0	0
Defense agencies	38,034	0	11,550	11,209	15,275	13,306	1,359	919	6,412	4,616
Department of Energy	1,198,160	0	133,417	1,063,338	1,405	137,218	77,042	52,911	5,714	1,551
Dept of Health & Human Svcs, total	115,654	0	97,356	18,298	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	4,926	0	4,899	27	0	0	0	0	0	0
Nat'l Institutes of Health	110,728	0	92,457	18,271	0	0	0	0	0	0
Department of the Interior, total	12,510	0	9,944	2,566	0	171,959	962	146,194	16,819	7,984
Bureau of Land Management	0	0	0	0	0	1,572	262	0	0	1,310
Bureau of Mines	0	0	0	0	0	7,118	0	444	0	6,674
Geological Survey	12,510	0	9,944	2,566	0	163,269	700	145,750	16,819	0
Other agencies:										
Environmental Protection Agency	18,643	0	17,283	1,360	0	15,467	15,467	0	0	0
Nat'l Aeronautics & Space Admin	932,566	550,703	39,311	258,294	84,258	459,603	254,346	135,246	28,962	41,049
Nat'l Archives & Records Admin	150	0	0	150	0	0	0	0	0	0
Nat'l Science Foundation	497,958	115,322	158,079	211,264	13,273	430,403	133,368	145,028	82,602	69,405
Smithsonian Institution	26,888	26,888	0	0	0	7,124	61	5,085	1,978	0
Tennessee Valley Authority	98	0	98	0	0	0	0	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-46. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	3,248,790	782,325	629,498	1,709,064	127,903	1,510,258	577,672	555,719	236,622	140,245
Departments:										
Department of Agriculture, total	42,336	0	40,281	2,055	0	6,710	2,883	3,827	0	0
Agricultural Research Svc	30,144	0	29,014	1,130	0	1,851	1,729	122	0	0
Cooperative State Research Svc	7,305	0	7,305	0	0	317	317	0	0	0
Forest Svc	4,887	0	3,962	925	0	4,542	837	3,705	0	0
Department of Commerce, total	28,258	331	11,955	15,870	102	178	0	178	0	0
Nat'l Inst of Standards & Tech	28,258	331	11,955	15,870	102	178	0	178	0	0
Department of Defense, total	185,593	5,553	77,696	92,232	10,112	184,428	31,278	58,232	88,062	6,856
Department of the Army	36,220	0	13,294	15,707	7,219	15,477	8,118	2,920	83	4,356
Department of the Navy	86,167	5,495	29,223	51,056	393	138,547	15,901	41,067	81,579	0
Department of the Air Force	40,558	0	24,480	16,078	0	18,605	5,333	13,272	0	0
Defense agencies	22,648	58	10,699	9,391	2,500	11,799	1,926	973	6,400	2,500
Department of Energy	1,255,051	0	142,582	1,110,879	1,590	169,899	106,880	53,239	8,712	1,088
Dept of Health & Human Svcs, total	122,803	0	103,380	19,423	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	5,214	0	5,185	29	0	0	0	0	0	0
Nat'l Institutes of Health	117,589	0	98,195	19,394	0	0	0	0	0	0
Department of the Interior, total	9,585	0	7,619	1,966	0	152,798	1,057	130,715	15,787	5,239
Bureau of Land Management	0	0	0	0	0	2,141	357	0	0	1,784
Bureau of Mines	0	0	0	0	0	3,949	0	494	0	3,455
Geological Survey	9,585	0	7,619	1,966	0	146,708	700	130,221	15,787	0
Other agencies:										
Environmental Protection Agency	23,300	0	21,555	1,745	0	13,206	13,206	0	0	0
Nat'l Aeronautics & Space Admin	1,000,333	621,009	46,168	231,639	101,517	477,041	267,034	136,201	26,395	47,411
Nat'l Archives & Records Admin	50	0	0	50	0	0	0	0	0	0
Nat'l Science Foundation	549,872	123,823	178,262	233,205	14,582	497,667	155,238	167,398	95,360	79,671
Smithsonian Institution	31,609	31,609	0	0	0	8,331	96	5,929	2,306	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-47. Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	1,233,711	256,223	69,651	101,672	59,251	142,457	115,561	294,558	194,338
Departments:									
Department of Agriculture, total	14,922	0	0	2,676	2,446	292	1,725	0	7,783
Agricultural Research Svc	2,264	0	0	1,264	568	265	167	0	0
Cooperative State Research Svc	6,045	0	0	0	0	0	0	0	6,045
Forest Svc	6,613	0	0	1,412	1,878	27	1,558	0	1,738
Department of Commerce, total	6,548	0	0	1,021	0	1,001	159	1,237	3,130
Nat'l Inst of Standards & Tech	6,548	0	0	1,021	0	1,001	159	1,237	3,130
Department of Defense, total	360,671	26,787	7,110	4,606	22,090	88,130	54,196	151,542	6,210
Department of the Army	62,195	7,145	0	2,398	7,890	21,885	6,612	15,363	902
Department of the Navy	112,970	0	0	2,208	493	37,932	32,476	39,483	378
Department of the Air Force	83,334	14,696	6,077	0	9,300	21,085	11,916	20,260	0
Defense agencies	102,172	4,046	1,033	0	4,407	7,228	3,192	76,436	4,930
Department of Energy	172,177	0	0	37,737	0	400	16,607	66,737	50,696
Dept of Health & Human Svcs, total	53,160	0	0	0	0	0	0	0	53,160
Alcohol, Drug Abuse, & Mental Health Admin	674	0	0	0	0	0	0	0	674
Nat'l Institutes of Health	52,486	0	0	0	0	0	0	0	52,486
Department of the Interior, total	36,738	0	0	0	100	0	0	10,022	26,616
Bureau of Mines	36,638	0	0	0	0	0	0	10,022	26,616
Bureau of Reclamation	100	0	0	0	100	0	0	0	0
Other agencies:									
Environmental Protection Agency	19,723	0	0	9,771	8,668	0	0	0	1,284
Nat'l Aeronautics & Space Admin	363,401	228,777	62,541	8,620	340	6,754	9,261	40,137	6,971
Nat'l Science Foundation	206,371	659	0	37,241	25,607	45,880	33,613	24,883	38,488

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-48. Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	1,396,934	283,776	75,200	112,033	60,770	169,495	134,236	304,465	256,959
Departments:									
Department of Agriculture, total	16,179	0	0	2,743	2,685	265	1,865	0	8,621
Agricultural Research Svc	2,309	0	0	1,223	663	236	187	0	0
Cooperative State Research Svc	6,750	0	0	0	0	0	0	0	6,750
Forest Svc	7,120	0	0	1,520	2,022	29	1,678	0	1,871
Department of Commerce, total	7,060	0	0	771	0	1,091	171	1,296	3,731
Nat'l Inst of Standards & Tech	7,060	0	0	771	0	1,091	171	1,296	3,731
Department of Defense, total	413,124	22,710	7,961	4,819	19,897	109,781	68,206	161,810	17,940
Department of the Army	61,418	7,011	0	2,621	8,638	22,565	6,677	12,998	908
Department of the Navy	115,485	0	0	1,518	433	39,415	31,429	42,251	439
Department of the Air Force	76,000	12,296	5,652	0	9,380	26,275	13,259	9,138	0
Defense agencies	160,221	3,403	2,309	680	1,446	21,526	16,841	97,423	16,593
Department of Energy	209,545	0	0	42,980	0	400	16,539	62,736	86,890
Dept of Health & Human Svcs, total	61,027	0	0	0	0	0	0	0	61,027
Alcohol, Drug Abuse, & Mental Health Admin	744	0	0	0	0	0	0	0	744
Nat'l Institutes of Health	60,283	0	0	0	0	0	0	0	60,283
Department of the Interior, total	37,377	0	0	0	0	0	0	10,637	26,740
Bureau of Mines	37,377	0	0	0	0	0	0	10,637	26,740
Other agencies:									
Environmental Protection Agency	23,289	0	0	12,008	9,921	0	0	0	1,360
Nat'l Aeronautics & Space Admin	404,813	260,354	67,239	8,348	403	7,997	10,966	41,252	8,254
Nat'l Science Foundation	224,520	712	0	40,364	27,864	49,961	36,489	26,734	42,396

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-49. Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	1,430,809	314,975	82,727	105,037	62,531	180,015	149,044	330,313	206,167
Departments:									
Department of Agriculture, total	15,602	0	0	2,705	2,594	273	1,774	0	8,256
Agricultural Research Svc	2,404	0	0	1,274	690	246	194	0	0
Cooperative State Research Svc	6,496	0	0	0	0	0	0	0	6,496
Forest Svc	6,702	0	0	1,431	1,904	27	1,580	0	1,760
Department of Commerce, total	9,140	0	0	980	0	1,384	361	2,115	4,300
Nat'l Inst of Standards & Tech	9,140	0	0	980	0	1,384	361	2,115	4,300
Department of Defense, total	416,606	25,641	7,447	7,020	18,676	108,763	73,097	167,473	8,489
Department of the Army	51,644	7,473	0	2,398	7,416	17,887	6,060	9,577	833
Department of the Navy	140,115	0	0	2,247	479	47,484	37,145	52,281	479
Department of the Air Force	83,332	14,079	6,000	0	9,183	21,821	12,242	20,007	0
Defense agencies	141,515	4,089	1,447	2,375	1,598	21,571	17,650	85,608	7,177
Department of Energy	150,259	0	0	22,352	0	400	18,450	64,500	44,557
Dept of Health & Human Svcs, total	64,782	0	0	0	0	0	0	0	64,782
Alcohol, Drug Abuse, & Mental Health Admin	793	0	0	0	0	0	0	0	793
Nat'l Institutes of Health	63,989	0	0	0	0	0	0	0	63,989
Department of the Interior, total	22,862	0	0	0	0	0	0	8,394	14,468
Bureau of Mines	22,862	0	0	0	0	0	0	8,394	14,468
Other agencies:									
Environmental Protection Agency	19,950	0	0	11,218	6,987	0	0	0	1,745
Nat'l Aeronautics & Space Admin	461,864	288,474	75,280	12,376	430	8,541	11,712	56,235	8,816
Nat'l Science Foundation	269,744	860	0	48,386	33,844	60,654	43,650	31,596	50,754

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-50. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	426,107	164,387	223,516	38,204	161,276	12,701	37,324	7,064	28,241	75,946
Departments:										
Department of Agriculture, total	5,014	4,465	549	0	23,420	0	20,359	171	2,880	10
Agricultural Research Svc	610	61	549	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	11,532	0	9,214	0	2,318	0
Economic Research Svc	0	0	0	0	7,612	0	7,469	24	109	10
Forest Svc	3,337	3,337	0	0	4,276	0	3,676	147	453	0
Nat'l Agricultural Statistics Svc	1,067	1,067	0	0	0	0	0	0	0	0
Department of Commerce, total	2,350	2,350	0	0	0	0	0	0	0	0
Bureau of the Census	1,985	1,985	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	365	365	0	0	0	0	0	0	0	0
Department of Defense, total	132,439	33,059	69,775	29,605	824	0	0	0	0	824
Department of the Army	17,320	6,938	9,968	414	0	0	0	0	0	0
Department of the Navy	38,113	16,966	16,590	4,557	0	0	0	0	0	0
Department of the Air Force	22,526	0	0	22,526	0	0	0	0	0	0
Defense agencies	54,480	9,155	43,217	2,108	824	0	0	0	0	824
Department of Education	0	0	0	0	7,112	0	0	0	0	7,112
Department of Energy	59,958	37,048	22,910	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	11,228	4,660	432	6,136	52,255	1,873	2,889	683	20,417	26,393
Alcohol, Drug Abuse, & Mental Health Admin	645	213	432	0	34,116	1,873	2,889	683	20,417	8,254
Nat'l Institutes of Health	10,583	4,447	0	6,136	18,139	0	0	0	0	18,139
Department of the Interior, total	3,857	957	2,900	0	300	0	0	0	0	300
Geological Survey	3,857	957	2,900	0	300	0	0	0	0	300
Department of Justice, total	350	150	200	0	4,700	200	100	625	1,150	2,625
Office of Justice Programs	350	150	200	0	4,700	200	100	625	1,150	2,625
Department of Labor, total	0	0	0	0	300	0	300	0	0	0
Employment and Training Admin	0	0	0	0	300	0	300	0	0	0
Department of State	0	0	0	0	4,598	362	1,130	1,805	677	624
Department of the Treasury, total	2,281	1,939	342	0	1,295	0	842	0	0	453
Internal Revenue Svc	2,281	1,939	342	0	1,295	0	842	0	0	453
Other agencies:										
Agency for International Development	0	0	0	0	744	0	690	0	0	54
Environmental Protection Agency	3,707	0	3,707	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	27,574	1,221	24,190	2,163	90	0	0	0	90	0
Nat'l Science Foundation	177,349	78,538	98,511	300	33,097	6,739	11,014	3,780	3,027	8,537
Smithsonian Institution	0	0	0	0	32,541	3,527	0	0	0	29,014

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-51. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	513,303	202,748	274,553	36,002	161,419	12,794	39,956	7,128	29,120	72,421
Departments:										
Department of Agriculture, total	5,281	4,774	507	0	24,849	0	21,661	183	2,993	12
Agricultural Research Svc	563	56	507	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	12,024	0	9,637	0	2,387	0
Economic Research Svc	0	0	0	0	8,221	0	8,066	25	118	12
Forest Svc	3,592	3,592	0	0	4,604	0	3,958	158	488	0
Nat'l Agricultural Statistics Svc	1,126	1,126	0	0	0	0	0	0	0	0
Department of Commerce, total	1,578	1,578	0	0	0	0	0	0	0	0
Bureau of the Census	1,052	1,052	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	526	526	0	0	0	0	0	0	0	0
Department of Defense, total	167,472	38,857	96,591	32,024	0	0	0	0	0	0
Department of the Army	17,906	7,397	10,331	178	0	0	0	0	0	0
Department of the Navy	37,914	17,578	16,331	4,005	0	0	0	0	0	0
Department of the Air Force	21,119	0	0	21,119	0	0	0	0	0	0
Defense agencies	90,533	13,882	69,929	6,722	0	0	0	0	0	0
Department of Education	0	0	0	0	4,853	0	0	0	0	4,853
Department of Energy	89,196	61,921	27,275	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	12,859	5,355	7,504	0	54,384	1,903	2,960	745	21,598	27,178
Alcohol, Drug Abuse, & Mental Health Admin	712	235	477	0	33,553	1,903	2,960	745	21,598	6,347
Nat'l Institutes of Health	12,147	5,120	7,027	0	20,831	0	0	0	0	20,831
Department of the Interior, total	3,787	942	2,845	0	300	0	0	0	0	300
Geological Survey	3,787	942	2,845	0	300	0	0	0	0	300
Department of Justice, total	250	100	150	0	2,331	90	200	300	472	1,269
Office of Justice Programs	250	100	150	0	2,331	90	200	300	472	1,269
Department of Labor, total	0	0	0	0	379	0	379	0	0	0
Employment and Training Admin	0	0	0	0	300	0	300	0	0	0
Pension Benefit Guaranty Corporation	0	0	0	0	79	0	79	0	0	0
Department of State	0	0	0	0	4,869	383	1,196	1,914	717	659
Department of the Treasury, total	2,281	1,939	342	0	1,295	0	842	0	0	453
Internal Revenue Svc	2,281	1,939	342	0	1,295	0	842	0	0	453
Other agencies:										
Agency for International Development	0	0	0	0	900	0	846	0	0	54
Environmental Protection Agency	4,608	0	4,608	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	30,424	2,040	24,906	3,478	107	0	0	0	107	0
Nat'l Science Foundation	195,567	85,242	109,825	500	35,383	7,027	11,872	3,986	3,233	9,265
Smithsonian Institution	0	0	0	0	31,769	3,391	0	0	0	28,378

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-52. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	562,922	214,931	312,892	35,099	171,970	14,610	39,500	7,653	30,690	79,517
Departments:										
Department of Agriculture, total	5,109	4,580	529	0	23,026	0	19,860	175	2,979	12
Agricultural Research Svc	587	58	529	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	10,239	0	7,841	0	2,398	0
Economic Research Svc	0	0	0	0	8,452	0	8,293	26	121	12
Forest Svc	3,382	3,382	0	0	4,335	0	3,726	149	460	0
Nat'l Agricultural Statistics Svc	1,140	1,140	0	0	0	0	0	0	0	0
Department of Commerce, total	1,742	1,435	131	176	0	0	0	0	0	0
Bureau of the Census	887	887	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	855	548	131	176	0	0	0	0	0	0
Department of Defense, total	157,100	35,445	92,667	28,988	0	0	0	0	0	0
Department of the Army	15,466	6,877	8,041	548	0	0	0	0	0	0
Department of the Navy	44,296	20,501	20,227	3,568	0	0	0	0	0	0
Department of the Air Force	22,243	0	0	22,243	0	0	0	0	0	0
Defense agencies	75,095	8,067	64,399	2,629	0	0	0	0	0	0
Department of Education	0	0	0	0	5,052	0	0	0	0	5,052
Department of Energy	98,982	67,056	31,926	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	13,653	5,686	7,967	0	57,489	1,999	3,104	803	22,806	28,777
Alcohol, Drug Abuse, & Mental Health Admin	759	251	508	0	35,378	1,999	3,104	803	22,806	6,666
Nat'l Institutes of Health	12,894	5,435	7,459	0	22,111	0	0	0	0	22,111
Department of the Interior, total	3,113	792	2,321	0	300	0	0	0	0	300
Geological Survey	3,113	792	2,321	0	300	0	0	0	0	300
Department of Justice, total	200	75	125	0	2,089	50	75	100	300	1,564
Office of Justice Programs	200	75	125	0	2,089	50	75	100	300	1,564
Department of Labor, total	0	0	0	0	200	0	200	0	0	0
Employment and Training Admin	0	0	0	0	200	0	200	0	0	0
Department of State	0	0	0	0	4,872	383	1,196	1,914	717	662
Department of the Treasury, total	2,281	1,939	342	0	1,295	0	842	0	0	453
Internal Revenue Svc	2,281	1,939	342	0	1,295	0	842	0	0	453
Other agencies:										
Agency for International Development	0	0	0	0	106	0	50	0	0	56
Environmental Protection Agency	7,932	0	7,932	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	34,447	3,479	25,533	5,435	114	0	0	0	114	0
Nat'l Science Foundation	238,363	94,444	143,419	500	41,593	8,225	14,173	4,661	3,774	10,760
Smithsonian Institution	0	0	0	0	35,834	3,953	0	0	0	31,881

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-53. Federal obligations for applied research, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	11,797,583	4,092,841	2,456,572	415,494	2,803,040	854,676	910,431	90,083	80,154	94,292
Departments:										
Department of Agriculture, total	617,887	392,834	2,791	2	210,821	0	6,768	0	2,468	2,203
Agricultural Cooperative Svc	2,814	2,812	0	0	2	0	0	0	0	0
Agricultural Marketing Svc 2/	3,716	2,131	0	0	225	0	0	0	1,360	0
Agricultural Research Svc	241,123	229,525	0	0	8,593	0	1,141	0	63	1,801
Cooperative State Research Svc	206,409	9,233	2,513	0	189,155	0	4,823	0	685	0
Economic Research Svc	46,758	45,246	0	0	1,512	0	0	0	0	0
Federal Grain Inspection Svc	650	377	0	0	273	0	0	0	0	0
Forest Svc	103,600	92,244	199	0	9,969	0	804	0	360	24
Human Nutrition Information Svc	9,899	9,341	79	0	479	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,177	1,912	0	2	263	0	0	0	0	0
Office of International Cooperation & Development	741	13	0	0	350	0	0	0	0	378
Department of Commerce, total	415,374	342,788	11,800	0	52,091	3	1,539	25	7,067	61
Bureau of the Census	2,317	2,317	0	0	0	0	0	0	0	0
Economic Development Admin	1,381	762	0	0	513	0	46	0	60	0
Nat'l Inst of Standards & Tech	92,466	84,064	3,825	0	3,240	3	1,331	0	0	3
Nat'l Oceanic & Atmospheric Admin	315,635	252,070	7,975	0	48,338	0	162	25	7,007	58
Nat'l Telecomm & Information Admin	3,575	3,575	0	0	0	0	0	0	0	0
Department of Defense, total	2,723,754	1,105,190	1,218,792	33,524	247,870	64,544	31,242	11,703	0	10,889
Department of the Army	671,911	442,398	173,692	2,475	31,859	4,215	9,438	1,012	0	6,822
Department of the Navy	486,000	281,858	146,847	14,534	38,116	3,197	288	790	0	370
Department of the Air Force	621,175	238,908	349,899	1,029	24,841	638	5,093	57	0	710
Defense agencies	944,668	142,026	548,354	15,486	153,054	56,494	16,423	9,844	0	2,987
Department of Education	123,114	7,666	6,771	0	81,317	0	25,584	0	1,676	100
Department of Energy	1,587,177	149,573	183,432	334,094	200,045	630,677	39,505	47,652	1,595	604
Dept of Health & Human Svcs, total	3,112,373	693,704	156,335	5,696	1,682,038	8,055	486,846	10,543	50,910	18,246
Admin on Aging 3/	2,854	104	0	0	882	0	1,793	0	75	0
Admin for Children and Families 3/	13,500	381	1,256	0	2,265	0	9,295	0	303	0
Agency for Health Care Policy & Research 4/	93,041	19,601	10,155	0	48,392	0	13,190	0	1,603	100
Alcohol, Drug Abuse, & Mental Health Admin	463,880	89,479	5,936	0	293,089	517	47,135	0	22,268	5,456
Centers for Disease Control	113,372	55,542	1,875	0	33,604	0	22,179	0	0	172
Food & Drug Admin	125,020	85,340	13,878	0	14,690	0	6,199	0	4,913	0
Health Care Financing Admin	69,075	229	16,376	0	10,700	0	36,555	0	5,104	111
Health Resources and Svcs Admin	9,519	2,439	0	0	5,381	0	0	1,699	0	0
Nat'l Institutes of Health	2,193,511	423,767	104,726	5,696	1,267,783	7,538	346,815	8,844	16,080	12,262
Office of Asst Secy for Health	9,614	9,614	0	0	0	0	0	0	0	0
Office of the Secretary	8,811	1,333	1,598	0	3,783	0	1,469	0	525	103
Social Security Admin	10,176	5,875	535	0	1,469	0	2,216	0	39	42
Dept of Housing & Urban Development	9,391	6,544	2,684	0	22	0	141	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-53. Federal obligations for applied research, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Interior, total	324,102	275,336	12,792	1,869	29,359	0	568	0	3,593	585
Bureau of Land Management	4,845	2,438	0	0	2,407	0	0	0	0	0
Bureau of Mines	56,200	39,513	9,861	1,779	2,597	0	0	0	2,450	0
Bureau of Reclamation	7,700	7,700	0	0	0	0	0	0	0	0
Geological Survey	159,256	145,445	2,627	0	9,601	0	413	0	1,143	27
Minerals Management Svc	2,686	1,279	219	90	435	0	105	0	0	558
Nat'l Park Svc	27,474	18,300	0	0	9,124	0	50	0	0	0
Office of the Secretary	100	15	85	0	0	0	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	1,041	1	0	0	1,040	0	0	0	0	0
US Fish & Wildlife Svc	64,800	60,645	0	0	4,155	0	0	0	0	0
Department of Justice, total	14,689	1,783	1,661	200	3,273	0	6,992	0	780	0
Bureau of Prisons 5/	1,900	1,400	100	0	0	0	0	0	400	0
Drug Enforcement Admin	900	100	600	200	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	360	0	0	0	0	0	0	0
Office of Justice Programs	11,489	243	601	0	3,273	0	6,992	0	380	0
Department of Labor, total	24,027	8,869	8,284	0	5,239	0	1,610	0	25	0
Bureau of Labor Statistics	7,500	2,500	0	0	5,000	0	0	0	0	0
Employment and Training Admin	6,300	2,800	2,245	0	0	0	1,230	0	25	0
Occupational Safety & Health Admin	2,603	392	2,211	0	0	0	0	0	0	0
Office of the Secretary	4,729	2,282	1,828	0	239	0	380	0	0	0
Pension Benefit Guaranty Corporation	355	355	0	0	0	0	0	0	0	0
Pension & Welfare Benefit Admin	2,540	540	2,000	0	0	0	0	0	0	0
Department of State	1,256	256	67	0	900	0	25	0	0	8
Department of Transportation, total	114,624	41,292	49,657	150	8,356	0	5,511	6,513	2,420	725
Coast Guard	6,384	4,385	1,299	0	700	0	0	0	0	0
Federal Aviation Admin	23,963	16,561	840	0	49	0	0	6,513	0	0
Federal Highway Admin	46,056	1,257	36,025	150	5,739	0	375	0	2,380	130
Federal Railroad Admin	13,193	6,706	2,334	0	618	0	3,535	0	0	0
Maritime Admin	1,713	993	470	0	250	0	0	0	0	0
Nat'l Highway Traffic Safety Admin	21,368	10,022	8,110	0	1,000	0	1,601	0	40	595
Office of the Secretary	586	82	504	0	0	0	0	0	0	0
Research & Special Programs Admin	1,361	1,286	75	0	0	0	0	0	0	0
Department of the Treasury, total	20,560	15,125	5,206	0	0	229	0	0	0	0
Bureau of Engraving and Printing	2,719	2,490	0	0	0	229	0	0	0	0
Internal Revenue Svc	13,945	9,319	4,626	0	0	0	0	0	0	0
Office of Protective Research	406	176	230	0	0	0	0	0	0	0
Office of Thrift Supervision 6/	2,990	2,990	0	0	0	0	0	0	0	0
United States Customs Svc	500	150	350	0	0	0	0	0	0	0
Department of Veterans Affairs	177,700	176,900	0	0	800	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-53. Federal obligations for applied research, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Advisory Commission on Intergovernmental Relations	1,663	1,663	0	0	0	0	0	0	0	0
Agency for International Development	351,687	10,743	19,196	0	50,971	0	216,913	0	0	53,864
Appalachian Regional Commission	742	100	332	0	20	0	0	0	290	0
Consumer Product Safety Commission	883	869	14	0	0	0	0	0	0	0
Environmental Protection Agency	261,915	123,097	88,476	0	18,642	0	23,483	0	8,217	0
Federal Communications Commission	1,442	1,442	0	0	0	0	0	0	0	0
Federal Trade Commission	957	957	0	0	0	0	0	0	0	0
International Trade Commission	9,885	9,885	0	0	0	0	0	0	0	0
Library of Congress	1,331	1,331	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	1,665,587	689,997	673,284	0	116,576	132,384	48,706	112	1,055	3,473
Nat'l Archives & Records Admin	255	155	0	0	0	100	0	0	0	0
Nat'l Science Foundation	109,018	688	7,326	39	88,693	195	10,975	12	58	1,032
Nuclear Regulatory Commission	108,800	19,919	7,451	39,920	5,421	18,439	1,625	13,523	0	2,502
Tennessee Valley Authority	16,900	13,935	0	0	567	0	2,398	0	0	0
US Arms Control & Disarmament Agency	390	100	221	0	19	50	0	0	0	0
United States Information Agency	100	100	0	0	0	0	0	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ Formerly listed as Federal Prison System

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-54. Federal obligations for applied research, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	12,941,391	4,451,206	2,762,208	467,808	3,021,737	931,419	1,004,641	104,199	106,928	91,245
Departments:										
Department of Agriculture, total	657,999	416,185	5,473	30	225,919	0	6,860	0	2,095	1,437
Agricultural Cooperative Svc	3,518	3,298	0	0	220	0	0	0	0	0
Agricultural Marketing Svc 2/	4,074	2,824	0	0	0	0	0	0	1,250	0
Agricultural Research Svc	249,467	238,114	0	0	8,643	0	1,225	0	65	1,420
Cooperative State Research Svc	224,637	10,656	2,891	0	205,563	0	5,022	0	505	0
Economic Research Svc	50,499	49,037	0	0	1,462	0	0	0	0	0
Federal Grain Inspection Svc	1,036	766	0	0	270	0	0	0	0	0
Forest Svc	111,300	101,584	152	0	8,659	0	613	0	275	17
Human Nutrition Information Svc	10,788	7,728	2,430	0	630	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,297	2,082	0	30	185	0	0	0	0	0
Office of International Cooperation & Development	383	96	0	0	287	0	0	0	0	0
Department of Commerce, total	495,720	364,592	64,207	0	57,022	1,326	1,765	25	6,722	61
Bureau of the Census	2,726	2,726	0	0	0	0	0	0	0	0
Economic Development Admin	500	100	0	0	300	0	100	0	0	0
Nat'l Inst of Standards & Tech	133,916	88,936	40,324	0	3,083	3	1,567	0	0	3
Nat'l Oceanic & Atmospheric Admin	354,627	268,879	23,883	0	53,639	1,323	98	25	6,722	58
Nat'l Telecomm & Information Admin	3,951	3,951	0	0	0	0	0	0	0	0
Department of Defense, total	3,003,555	1,180,709	1,359,494	30,943	307,258	58,269	48,087	11,631	0	7,164
Department of the Army	689,605	471,589	151,809	2,715	25,917	19,453	15,742	635	0	1,745
Department of the Navy	501,000	288,175	152,766	14,970	39,769	3,829	352	756	0	383
Department of the Air Force	630,646	247,988	349,698	116	24,032	590	5,159	2,263	0	800
Defense agencies	1,182,304	172,957	705,221	13,142	217,540	34,397	26,834	7,977	0	4,236
Department of Education	143,296	8,637	8,858	0	91,417	0	32,988	0	1,296	100
Department of Energy	1,790,747	222,633	201,816	381,618	186,392	705,292	30,424	59,346	2,549	677
Dept of Health & Human Svcs, total	3,368,465	783,579	173,774	6,682	1,763,898	9,161	553,536	13,154	65,744	18,937
Admin on Aging 3/	2,860	110	0	0	1,400	0	1,200	0	150	0
Admin for Children and Families 3/	14,400	467	1,464	0	2,080	0	9,918	0	471	0
Agency for Health Care Policy & Research 4/	97,836	23,442	6,721	0	47,670	0	18,293	0	1,610	100
Alcohol, Drug Abuse, & Mental Health Admin	492,639	95,402	6,235	0	311,776	570	50,751	0	23,433	4,472
Centers for Disease Control	117,400	58,872	1,875	0	33,604	0	22,849	0	0	200
Food & Drug Admin	137,706	93,991	15,288	0	16,185	0	6,830	0	5,412	0
Health Care Financing Admin	78,380	231	17,171	0	10,496	0	37,230	0	13,137	115
Health Resources and Svcs Admin	9,594	2,664	0	0	5,231	0	0	1,699	0	0
Nat'l Institutes of Health	2,394,000	485,557	119,851	6,682	1,333,370	8,591	396,039	11,455	18,455	14,000
Office of Asst Secy for Health	7,930	7,930	0	0	0	0	0	0	0	0
Office of the Secretary	5,012	890	1,086	0	1,038	0	1,387	0	611	0
Social Security Admin	30,706	14,023	4,083	0	1,048	0	9,039	0	2,465	50
Dept of Housing & Urban Development	10,366	5,416	3,149	0	374	0	1,225	0	202	0

See explanatory information, if any, and SOURCE at end of table.

Table C-54. Federal obligations for applied research, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Interior, total	334,492	295,584	3,677	1,810	29,007	0	845	0	1,442	2,127
Bureau of Land Management	4,714	2,372	0	0	2,342	0	0	0	0	0
Bureau of Mines	58,435	53,346	805	1,785	2,271	0	0	0	228	0
Bureau of Reclamation	10,700	10,160	0	0	315	0	225	0	0	0
Geological Survey	164,604	150,415	2,419	0	10,120	0	420	0	1,214	16
Minerals Management Svc	3,685	939	303	25	307	0	0	0	0	2,111
Nat'l Park Svc	29,000	19,800	0	0	9,000	0	200	0	0	0
Office of the Secretary	200	50	150	0	0	0	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	254	1	0	0	253	0	0	0	0	0
US Fish & Wildlife Svc	62,900	58,501	0	0	4,399	0	0	0	0	0
Department of Justice, total	16,444	2,090	1,210	100	2,855	0	9,139	0	1,050	0
Bureau of Prisons 5/	2,000	1,400	100	0	0	0	0	0	500	0
Drug Enforcement Admin	300	200	0	100	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	360	0	0	0	0	0	0	0
Office of Justice Programs	13,744	450	750	0	2,855	0	9,139	0	550	0
Department of Labor, total	24,863	13,708	8,705	0	1,108	0	1,316	0	26	0
Bureau of Labor Statistics	7,600	7,600	0	0	0	0	0	0	0	0
Employment and Training Admin	6,500	2,286	2,214	0	908	0	1,066	0	26	0
Occupational Safety & Health Admin	3,219	404	2,815	0	0	0	0	0	0	0
Office of the Secretary	4,691	2,715	1,526	0	200	0	250	0	0	0
Pension Benefit Guaranty Corporation	393	143	250	0	0	0	0	0	0	0
Pension & Welfare Benefit Admin	2,460	560	1,900	0	0	0	0	0	0	0
Department of State	431	266	130	0	0	0	35	0	0	0
Department of Transportation, total	161,614	42,862	81,384	2,494	12,185	0	7,830	7,411	6,396	1,052
Coast Guard	7,188	4,937	0	1,551	700	0	0	0	0	0
Federal Aviation Admin	33,793	15,107	11,300	0	0	0	0	7,386	0	0
Federal Highway Admin	66,729	817	51,863	943	9,009	0	449	0	3,296	352
Federal Railroad Admin	24,227	9,300	6,942	0	176	0	4,809	0	3,000	0
Maritime Admin	1,751	1,086	565	0	100	0	0	0	0	0
Nat'l Highway Traffic Safety Admin	25,774	10,310	10,092	0	2,000	0	2,572	0	100	700
Office of the Secretary	740	93	622	0	0	0	0	25	0	0
Research & Special Programs Admin	1,412	1,212	0	0	200	0	0	0	0	0
Department of the Treasury, total	21,315	16,151	5,096	0	0	68	0	0	0	0
Bureau of Engraving and Printing	3,565	3,497	0	0	0	68	0	0	0	0
Internal Revenue Svc	13,945	9,319	4,626	0	0	0	0	0	0	0
Office of Protective Research	532	212	320	0	0	0	0	0	0	0
Office of Thrift Supervision 6/	3,023	3,023	0	0	0	0	0	0	0	0
United States Customs Svc	250	100	150	0	0	0	0	0	0	0
Department of Veterans Affairs	197,300	196,500	0	0	800	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-54. Federal obligations for applied research, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Advisory Commission on Intergovernmental Relations	1,510	1,510	0	0	0	0	0	0	0	0
Agency for International Development	329,744	9,033	15,231	0	35,662	0	217,711	0	0	52,107
Appalachian Regional Commission	1,900	35	1,759	0	56	0	0	0	50	0
Consumer Product Safety Commission	818	765	53	0	0	0	0	0	0	0
Environmental Protection Agency	312,324	89,388	120,750	0	58,566	0	25,875	0	17,745	0
Federal Communications Commission	1,594	1,594	0	0	0	0	0	0	0	0
Federal Trade Commission	528	528	0	0	0	0	0	0	0	0
International Trade Commission	11,720	11,720	0	0	0	0	0	0	0	0
Library of Congress	1,571	1,571	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	1,761,354	743,761	688,080	0	138,035	135,304	51,506	111	1,031	3,526
Nat'l Archives & Records Admin	110	110	0	0	0	0	0	0	0	0
Nat'l Science Foundation	127,847	665	8,886	40	104,856	840	10,672	14	580	1,294
Nuclear Regulatory Commission	118,898	21,563	9,158	43,991	5,681	21,109	2,376	12,257	0	2,763
Tennessee Valley Authority	21,858	18,811	0	0	598	0	2,451	0	0	0
US Arms Control & Disarmament Agency	2,058	290	1,318	100	50	50	0	250	0	0
United States Information Agency	950	950	0	0	0	0	0	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ Formerly listed as Federal Prison System

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-55. Federal obligations for applied research, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	13,714,972	4,947,775	2,954,820	450,592	3,182,901	916,048	975,651	100,780	94,433	91,972
Departments:										
Department of Agriculture, total	629,661	419,990	5,889	30	198,473	0	1,974	0	1,867	1,438
Agricultural Cooperative Svc	3,097	3,097	0	0	0	0	0	0	0	0
Agricultural Marketing Svc 2/	3,729	2,710	0	0	0	0	0	0	1,019	0
Agricultural Research Svc	259,766	248,012	0	0	8,928	0	1,335	0	71	1,420
Cooperative State Research Svc	191,568	10,266	2,731	0	178,080	0	0	0	491	0
Economic Research Svc	51,920	50,458	0	0	1,462	0	0	0	0	0
Federal Grain Inspection Svc	1,139	783	0	0	356	0	0	0	0	0
Forest Svc	105,000	94,877	158	0	9,022	0	639	0	286	18
Human Nutrition Information Svc	10,788	7,588	3,000	0	200	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,324	2,109	0	30	185	0	0	0	0	0
Office of International Cooperation & Development	330	90	0	0	240	0	0	0	0	0
Department of Commerce, total	494,318	405,565	40,147	0	42,600	3	1,336	25	4,581	61
Bureau of the Census	2,699	2,699	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	143,222	106,654	31,889	0	3,435	3	1,238	0	0	3
Nat'l Oceanic & Atmospheric Admin	342,121	289,936	8,258	0	39,165	0	98	25	4,581	58
Nat'l Telecomm & Information Admin	6,276	6,276	0	0	0	0	0	0	0	0
Department of Defense, total	3,365,000	1,401,486	1,392,407	21,076	449,296	55,130	30,146	9,512	0	5,947
Department of the Army	591,202	381,341	169,566	747	25,456	3,249	8,526	400	0	1,917
Department of the Navy	619,000	364,768	189,302	15,419	45,837	2,000	407	872	0	395
Department of the Air Force	829,215	324,894	463,577	151	32,549	379	6,739	76	0	850
Defense agencies	1,126,080	209,756	540,502	4,759	298,975	49,502	13,737	8,164	0	685
Health Affairs, Assistant Secretary of Defense for	199,503	120,727	29,460	0	46,479	0	737	0	0	2,100
Department of Education	140,020	8,868	7,420	0	95,581	0	26,751	0	1,300	100
Department of Energy	1,747,505	261,650	194,888	376,404	137,449	683,925	29,331	61,431	1,985	442
Dept of Health & Human Svcs, total	3,460,164	802,643	180,540	7,005	1,840,263	9,614	528,543	13,708	58,151	19,697
Admin on Aging 3/	2,860	110	0	0	1,200	0	1,400	0	150	0
Admin for Children and Families 3/	16,000	415	1,338	0	2,099	0	11,707	0	441	0
Agency for Health Care Policy & Research 4/	67,948	14,376	7,415	0	35,339	0	9,644	0	1,174	0
Alcohol, Drug Abuse, & Mental Health Admin	522,634	102,682	6,605	0	329,672	607	53,511	0	24,817	4,740
Centers for Disease Control	118,325	59,505	1,000	0	33,604	0	23,991	0	0	225
Food & Drug Admin	143,300	97,809	15,909	0	16,842	0	7,108	0	5,632	0
Health Care Financing Admin	36,000	216	17,352	0	10,584	0	4,680	0	3,168	0
Health Resources and Svcs Admin	9,673	2,743	0	0	5,231	0	0	1,699	0	0
Nat'l Institutes of Health	2,515,500	509,034	125,646	7,005	1,403,587	9,007	415,188	12,009	19,347	14,677
Office of Asst Secy for Health	2,828	2,828	0	0	0	0	0	0	0	0
Office of the Secretary	5,224	1,000	1,000	0	1,500	0	1,224	0	500	0
Social Security Admin	19,872	11,925	4,275	0	605	0	90	0	2,922	55
Dept of Housing & Urban Development	13,208	8,218	4,216	0	101	0	671	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-55. Federal obligations for applied research, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Interior, total	311,448	280,260	3,570	25	24,525	0	550	0	500	2,018
Bureau of Land Management	8,850	4,453	0	0	4,397	0	0	0	0	0
Bureau of Mines	43,629	43,629	0	0	0	0	0	0	0	0
Bureau of Reclamation	8,300	7,600	0	0	700	0	0	0	0	0
Geological Survey	153,991	147,145	1,467	0	4,579	0	300	0	500	0
Minerals Management Svc	3,678	932	303	25	400	0	0	0	0	2,018
Nat'l Park Svc	29,500	20,250	0	0	9,000	0	250	0	0	0
Office of the Secretary	2,000	200	1,800	0	0	0	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	400	1	0	0	399	0	0	0	0	0
US Fish & Wildlife Svc	61,100	56,050	0	0	5,050	0	0	0	0	0
Department of Justice, total	12,666	2,190	1,225	100	2,150	0	5,786	0	1,215	0
Bureau of Prisons 5/	2,000	1,400	100	0	0	0	0	0	500	0
Drug Enforcement Admin	300	200	0	100	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	360	0	0	0	0	0	0	0
Office of Justice Programs	9,966	550	765	0	2,150	0	5,786	0	715	0
Department of Labor, total	27,395	12,876	10,828	0	1,558	0	2,058	0	75	0
Bureau of Labor Statistics	8,400	8,400	0	0	0	0	0	0	0	0
Employment and Training Admin	3,800	756	1,353	0	1,008	0	608	0	75	0
Occupational Safety & Health Admin	3,219	404	2,815	0	0	0	0	0	0	0
Office of the Secretary	9,081	2,655	4,426	0	550	0	1,450	0	0	0
Pension Benefit Guaranty Corporation	535	80	455	0	0	0	0	0	0	0
Pension & Welfare Benefit Admin	2,360	581	1,779	0	0	0	0	0	0	0
Department of State	442	277	130	0	0	0	35	0	0	0
Department of Transportation, total	210,243	85,489	90,530	1,126	18,664	0	8,197	783	4,034	1,420
Coast Guard	7,375	4,948	1,727	0	700	0	0	0	0	0
Federal Aviation Admin	64,543	54,630	3,831	0	5,339	0	0	743	0	0
Federal Highway Admin	77,315	1,583	60,002	1,126	10,250	0	0	0	3,934	420
Federal Railroad Admin	21,197	9,539	6,359	0	75	0	5,224	0	0	0
Maritime Admin	1,734	984	650	0	100	0	0	0	0	0
Nat'l Highway Traffic Safety Admin	35,778	12,372	17,333	0	2,000	0	2,973	0	100	1,000
Office of the Secretary	763	95	628	0	0	0	0	40	0	0
Research & Special Programs Admin	1,538	1,338	0	0	200	0	0	0	0	0
Department of the Treasury, total	19,665	14,219	5,446	0	0	0	0	0	0	0
Bureau of Engraving and Printing	1,325	1,325	0	0	0	0	0	0	0	0
Internal Revenue Svc	13,945	9,319	4,626	0	0	0	0	0	0	0
Office of Protective Research	572	252	320	0	0	0	0	0	0	0
Office of Thrift Supervision 6/	3,173	3,173	0	0	0	0	0	0	0	0
United States Customs Svc	650	150	500	0	0	0	0	0	0	0
Department of Veterans Affairs	205,900	205,100	0	0	800	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-55. Federal obligations for applied research, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural 1/	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Advisory Commission on Intergovernmental Relations	1,481	1,481	0	0	0	0	0	0	0	0
Agency for International Development	342,466	8,127	13,818	0	31,566	0	236,098	0	0	52,857
Appalachian Regional Commission	900	100	600	0	50	0	0	0	150	0
Consumer Product Safety Commission	1,090	875	215	0	0	0	0	0	0	0
Environmental Protection Agency	319,336	92,811	121,560	0	58,974	0	27,138	0	18,853	0
Federal Communications Commission	1,585	1,585	0	0	0	0	0	0	0	0
Federal Trade Commission	548	548	0	0	0	0	0	0	0	0
International Trade Commission	12,533	12,533	0	0	0	0	0	0	0	0
Library of Congress	1,573	1,573	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	2,103,082	887,500	856,970	0	147,426	144,705	61,499	111	1,122	3,749
Nat'l Archives & Records Admin	210	110	0	0	0	100	0	0	0	0
Nat'l Science Foundation	153,361	1,036	11,222	0	127,493	423	11,239	20	600	1,328
Nuclear Regulatory Commission	127,720	22,555	12,599	44,726	5,857	22,148	1,805	15,115	0	2,915
Tennessee Valley Authority	9,854	7,310	0	0	50	0	2,494	0	0	0
US Arms Control & Disarmament Agency	1,000	200	600	100	25	0	0	75	0	0
United States Information Agency	600	600	0	0	0	0	0	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ Formerly listed as Federal Prison System

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-56. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Field of science and engineering	1991	Estimates	
		1992	1993
Total, all fields	11,797,583	12,941,391	13,714,972
Life sciences, total	4,188,429	4,443,351	4,716,646
Biological (excl environmental)	1,543,447	1,601,508	1,649,106
Environmental biology	272,809	290,711	286,513
Agricultural	406,761	417,856	408,054
Medical	1,602,560	1,738,714	1,781,870
Life sciences, n.e.c	362,852	394,562	591,103
Psychology, total	256,880	272,463	305,655
Biological aspects	72,141	77,654	81,815
Social aspects	129,205	132,582	152,593
Psychological sciences, n.e.c.	55,534	62,227	71,247
Physical sciences, total	1,353,874	1,470,921	1,541,064
Astronomy	19,346	8,744	9,562
Chemistry	289,689	328,606	321,370
Physics	815,981	921,010	976,732
Physical sciences, n.e.c.	228,858	212,561	233,400
Environmental sciences, total	886,257	973,046	992,960
Atmospheric	353,728	362,663	387,388
Geological	229,749	252,807	238,567
Oceanography	201,043	217,819	239,357
Environmental sciences, n.e.c.	101,737	139,757	12[illegible],648
Mathematics & comp sciences, total	477,598	640,576	649,388
Mathematics	63,229	67,072	78,609
Computer sciences	361,425	503,632	498,967
Mathematics & comp sciences, n.e.c.	52,944	69,872	71,812
Engineering, total	3,710,760	4,090,777	4,504,477
Aeronautical	760,009	883,247	1,052,875
Astronautical	583,443	583,993	688,528
Chemical	202,631	238,360	204,265
Civil	245,736	291,230	324,765
Electrical	587,448	590,425	657,624
Mechanical	219,953	208,334	245,861
Metallurgy & materials	415,347	448,218	362,875
Engineering, n.e.c.	696,193	846,970	967,884
Social sciences, total	566,014	628,762	545,740
Anthropology	3,281	3,512	4,107
Economics	150,099	157,301	149,182
Political science	9,958	11,643	9,909
Sociology	155,738	162,768	137,819
Social sciences, n.e.c.	246,938	293,538	244,723
Other sciences, n.e.c.	357,771	421,495	459,042

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-57. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	11,797,583	4,188,429	256,880	1,353,874	886,257	477,598	3,710,760	566,014	357,771
Departments:									
Department of Agriculture, total	617,887	445,361	196	41,661	9,173	8,344	28,605	84,547	0
Agricultural Cooperative Svc	2,814	0	0	0	0	0	0	2,814	0
Agricultural Marketing Svc 1/	3,716	3,716	0	0	0	0	0	0	0
Agricultural Research Svc	241,123	211,082	0	22,690	1,655	977	4,719	0	0
Cooperative State Research Svc	206,409	152,471	0	11,470	545	0	13,599	28,324	0
Economic Research Svc	46,758	0	0	0	0	0	0	46,758	0
Federal Grain Inspection Svc	650	650	0	0	0	0	0	0	0
Forest Svc	103,600	66,802	196	7,501	6,973	5,190	10,287	6,651	0
Human Nutrition Information Svc	9,899	9,899	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,177	0	0	0	0	2,177	0	0	0
Office of International Ccoperation & Development	741	741	0	0	0	0	0	0	0
Department of Commerce, total	415,374	68,242	374	44,205	184,690	25,994	59,014	12,050	20,805
Bureau of the Census	2,317	0	202	0	0	1,460	0	597	58
Economic Development Admin	1,381	0	0	0	0	0	0	1,381	0
Nat'l Inst of Standards & Tech	92,466	0	0	28,800	286	14,151	48,966	263	0
Nat'l Oceanic & Atmospheric Admin	315,635	68,242	172	15,405	184,404	10,383	6,473	9,809	20,747
Nat'l Telecomm & Information Admin	3,575	0	0	0	0	0	3,575	0	0
Department of Defense, total	2,723,754	189,087	72,018	394,395	110,371	248,097	1,577,348	1,774	130,664
Department of the Army	671,911	113,689	34,631	80,490	12,969	31,638	368,080	1,774	28,640
Department of the Navy	486,000	14,351	14,498	128,678	17,004	16,906	290,386	0	4,177
Department of the Air Force	621,175	45,779	22,889	63,298	45,778	28,612	414,819	0	0
Defense agencies	944,668	15,268	0	121,929	34,620	170,941	504,063	0	97,847
Department of Education	123,114	15,443	4,961	0	0	1,804	5,412	95,494	0
Department of Energy	1,587,177	124,281	0	670,588	113,560	82,745	551,426	0	44,577
Dept of Health & Human Svcs, total	3,112,373	2,527,711	149,062	32,306	0	6,997	23,170	266,626	106,501
Admin on Aging 2/	2,854	0	0	0	0	0	0	2,854	0
Admin for Children and Families 2/	13,500	0	0	0	0	0	0	13,500	0
Agency for Health Care Policy & Research 3/	93,041	0	0	0	0	0	0	93,041	0
Alcohol, Drug Abuse, & Mental Health Admin	463,880	283,015	109,849	7,078	0	1,439	0	55,562	6,937
Centers for Disease Control	113,372	113,372	0	0	0	0	0	0	0
Food & Drug Admin	125,020	125,020	0	0	0	0	0	0	0
Health Care Financing Admin	69,075	0	0	0	0	0	0	69,075	0
Health Resources and Svcs Admin	9,519	9,519	0	0	0	0	0	0	0
Nat'l Institutes of Health	2,193,511	1,987,171	39,213	25,228	0	5,558	23,170	13,607	99,564
Office of Asst Secy for Health	9,614	9,614	0	0	0	0	0	0	0
Office of the Secretary	8,811	0	0	0	0	0	0	8,811	0
Social Security Admin	10,176	0	0	0	0	0	0	10,176	0
Dept of Housing & Urban Development	9,391	0	0	0	187	199	135	6,578	2,292

See explanatory information, if any, and SOURCE at end of table.

Table C-57. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Department of the Interior, total	324,102	94,479	0	22,860	130,899	11,174	60,724	3,911	55
Bureau of Land Management	4,845	4,845	0	0	0	0	0	0	0
Bureau of Mines	56,200	0	0	0	10,041	0	46,159	0	0
Bureau of Reclamation	7,700	1,882	0	2,000	239	0	3,524	0	55
Geological Survey	159,256	1,863	0	20,860	117,153	10,824	8,355	201	0
Minerals Management Svc	2,686	0	0	0	0	0	2,686	0	0
Nat'l Park Svc	27,474	20,600	0	0	2,814	350	0	3,710	0
Office of the Secretary	100	0	0	0	100	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	1,041	489	0	0	552	0	0	0	0
US Fish & Wildlife Svc	64,800	64,800	0	0	0	0	0	0	0
Department of Justice, total	14,689	0	852	0	0	700	1,300	9,829	2,008
Bureau of Prisons 4/	1,900	0	400	0	0	0	0	1,500	0
Drug Enforcement Admin	900	0	0	0	0	0	900	0	0
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	11,489	0	452	0	0	700	0	8,329	2,008
Department of Labor, total	24,027	0	0	0	0	0	0	24,027	0
Bureau of Labor Statistics	7,500	0	0	0	0	0	0	7,500	0
Employment and Training Admin	6,300	0	0	0	0	0	0	6,300	0
Occupational Safety & Health Admin	2,603	0	0	0	0	0	0	2,603	0
Office of the Secretary	4,729	0	0	0	0	0	0	4,729	0
Pension Benefit Guaranty Corporation	355	0	0	0	0	0	0	355	0
Pension & Welfare Benefit Admin	2,540	0	0	0	0	0	0	2,540	0
Department of State	1,256	0	0	0	0	0	0	1,256	0
Department of Transportation, total	114,624	4,160	2,658	2,788	2,421	16,327	78,932	6,619	719
Coast Guard	6,384	0	557	0	803	1,703	3,321	0	0
Federal Aviation Admin	23,963	2,505	2,101	0	0	8,971	10,386	0	0
Federal Highway Admin	46,056	0	0	1,796	1,618	2,238	39,738	666	0
Federal Railroad Admin	13,193	0	0	792	0	0	9,763	2,638	0
Maritime Admin	1,713	0	0	0	0	0	1,713	0	0
Nat'l Highway Traffic Safety Admin	21,368	1,655	0	0	0	2,980	13,454	3,279	0
Office of the Secretary	586	0	0	200	0	0	350	36	0
Research & Special Programs Admin	1,361	0	0	0	0	435	207	0	719
Department of the Treasury, total	20,560	140	266	3,219	0	8,897	0	8,038	0
Bureau of Engraving and Printing	2,719	0	0	2,719	0	0	0	0	0
Internal Revenue Svc	13,945	0	0	0	0	8,897	0	5,048	0
Office of Protective Research	406	140	266	0	0	0	0	0	0
Office of Thrift Supervision 5/	2,990	0	0	0	0	0	0	2,990	0
United States Customs Svc	500	0	0	500	0	0	0	0	0
Department of Veterans Affairs	177,700	161,399	16,137	0	0	0	164	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-57. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Advisory Commission on Intergovernmental Relations	1,663	0	0	0	0	0	0	1,663	0
Agency for International Development	351,687	300,022	0	0	0	4,112	906	23,598	23,049
Appalachian Regional Commission	742	0	0	0	0	0	0	742	0
Consumer Product Safety Commission	883	0	0	178	0	0	705	0	0
Environmental Protection Agency	261,915	117,381	1,091	37,304	62,326	773	41,199	0	1,841
Federal Communications Commission	1,442	0	0	0	0	75	928	439	0
Federal Trade Commission	957	0	0	0	0	0	0	957	0
International Trade Commission	9,885	0	0	0	0	0	0	9,885	0
Library of Congress	1,331	0	0	0	0	0	0	0	1,331
Nat'l Aeronautics & Space Admin	1,665,587	129,427	9,043	86,199	267,342	52,358	1,114,549	36	6,633
Nat'l Archives & Records Admin	255	0	0	185	0	70	0	0	0
Nat'l Science Foundation	109,018	9,009	222	11,111	4,538	8,932	56,298	7,269	11,639
Nuclear Regulatory Commission	108,800	0	0	0	0	0	108,800	0	0
Tennessee Valley Authority	16,900	2,287	0	6,875	750	0	850	481	5,657
US Arms Control & Disarmament Agency	390	0	0	0	0	0	195	195	0
United States Information Agency	100	0	0	0	0	0	100	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-58. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	12,941,391	4,443,351	272,463	1,470,921	973,046	640,576	4,090,777	628,762	421,495
Departments:									
Department of Agriculture, total	657,999	473,960	211	44,847	9,650	8,879	29,742	90,710	0
Agricultural Cooperative Svc	3,518	0	0	0	0	0	0	3,518	0
Agricultural Marketing Svc 1/	4,074	4,074	0	0	0	0	0	0	0
Agricultural Research Svc	249,467	218,311	0	24,514	1,591	1,006	4,045	0	0
Cooperative State Research Svc	224,637	167,602	0	12,275	568	0	14,645	29,547	0
Economic Research Svc	50,499	0	0	0	0	0	0	50,499	0
Federal Grain Inspection Svc	1,036	1,036	0	0	0	0	0	0	0
Forest Svc	111,300	71,766	211	8,058	7,491	5,576	11,052	7,146	0
Human Nutrition Information Svc	10,788	10,788	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,297	0	0	0	0	2,297	0	0	0
Office of International Cooperation & Development	383	383	0	0	0	0	0	0	0
Department of Commerce, total	495,720	85,872	394	57,403	201,002	34,796	80,989	12,151	23,113
Bureau of the Census	2,726	0	237	0	0	1,719	0	703	67
Economic Development Admin	500	0	0	0	0	0	0	500	0
Nat'l Inst of Standards & Tech	133,916	0	0	41,397	342	21,684	70,252	241	0
Nat'l Oceanic & Atmospheric Admin	354,627	85,872	157	16,006	200,660	11,393	6,786	10,707	23,046
Nat'l Telecomm & Information Admin	3,951	0	0	0	0	0	3,951	0	0
Department of Defense, total	3,003,555	205,443	67,383	406,653	123,912	378,728	1,675,481	1,493	144,462
Department of the Army	689,605	116,645	29,325	86,152	20,972	31,985	386,201	1,493	16,832
Department of the Navy	501,000	14,721	14,872	133,054	17,444	17,343	299,281	0	4,285
Department of the Air Force	630,646	46,371	23,186	64,062	46,371	28,982	421,674	0	0
Defense agencies	1,182,304	27,706	0	123,385	39,125	300,418	568,325	0	123,345
Department of Education	143,296	18,311	5,784	0	0	1,578	6,310	111,313	0
Department of Energy	1,790,747	84,202	0	733,451	143,392	106,025	655,582	0	68,095
Dept of Health & Human Svcs, total	3,388,465	2,728,668	162,735	36,245	0	8,014	26,933	303,147	122,723
Admin on Aging 2/	2,860	0	0	0	0	0	0	2,860	0
Admin for Children and Families 2/	14,400	0	0	0	0	0	0	14,400	0
Agency for Health Care Policy & Research 3/	97,836	0	0	0	0	0	0	97,836	0
Alcohol, Drug Abuse, & Mental Health Admin	492,639	301,821	117,153	6,919	0	1,550	0	58,127	7,069
Centers for Disease Control	117,400	117,400	0	0	0	0	0	0	0
Food & Drug Admin	137,706	137,706	0	0	0	0	0	0	0
Health Care Financing Admin	78,380	0	0	0	0	0	0	78,380	0
Health Resources and Svcs Admin	9,594	9,594	0	0	0	0	0	0	0
Nat'l Institutes of Health	2,394,000	2,154,217	45,582	29,326	0	6,464	26,933	15,824	115,654
Office of Asst Secy for Health	7,930	7,930	0	0	0	0	0	0	0
Office of the Secretary	5,012	0	0	0	0	0	0	5,012	0
Social Security Admin	30,708	0	0	0	0	0	0	30,708	0
Dept of Housing & Urban Development	10,366	0	0	0	369	90	581	7,251	2,075

See explanatory information, if any, and SOURCE at end of table.

Table C-58. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Department of the Interior, total	334,492	95,392	0	24,555	134,133	11,564	65,089	3,759	0
Bureau of Land Management	4,714	4,605	0	0	0	0	0	109	0
Bureau of Mines	58,435	0	0	0	10,933	0	47,502	0	0
Bureau of Reclamation	10,700	3,220	0	2,000	0	0	5,480	0	0
Geological Survey	164,604	2,049	0	22,555	120,164	11,264	8,422	150	0
Minerals Management Svc	3,685	0	0	0	0	0	3,685	0	0
Nat'l Park Svc	29,000	22,500	0	0	2,700	300	0	3,500	0
Office of the Secretary	200	0	0	0	200	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	254	118	0	0	136	0	0	0	0
US Fish & Wildlife Svc	62,900	62,900	0	0	0	0	0	0	0
Department of Justice, total	16,444	400	1,900	0	0	550	700	11,571	1,323
Bureau of Prisons 4/	2,000	0	400	0	0	0	0	1,600	0
Drug Enforcement Admin	300	0	0	0	0	0	300	0	0
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	13,744	400	1,500	0	0	550	0	9,971	1,323
Department of Labor, total	24,863	0	0	0	0	0	0	24,863	0
Bureau of Labor Statistics	7,600	0	0	0	0	0	0	7,600	0
Employment and Training Admin	6,500	0	0	0	0	0	0	6,500	0
Occupational Safety & Health Admin	3,219	0	0	0	0	0	0	3,219	0
Office of the Secretary	4,691	0	0	0	0	0	0	4,691	0
Pension Benefit Guaranty Corporation	393	0	0	0	0	0	0	393	0
Pension & Welfare Benefit Admin	2,460	0	0	0	0	0	0	2,460	0
Department of State	431	0	0	0	0	0	0	431	0
Department of Transportation, total	161,614	6,136	5,717	2,846	8,791	19,193	110,017	8,795	119
Coast Guard	7,188	0	810	0	822	1,823	3,733	0	0
Federal Aviation Admin	33,793	3,481	4,907	0	0	7,943	17,462	0	0
Federal Highway Admin	66,729	0	0	1,127	7,754	5,634	51,816	398	0
Federal Railroad Admin	24,227	0	0	1,454	0	0	17,928	4,845	0
Maritime Admin	1,751	0	0	0	50	0	1,701	0	0
Nat'l Highway Traffic Safety Admin	25,774	2,655	0	0	0	3,278	16,889	2,952	0
Office of the Secretary	740	0	0	265	0	0	400	75	0
Research & Special Programs Admin	1,412	0	0	0	165	515	88	525	119
Department of the Treasury, total	21,315	160	372	3,774	0	8,897	41	8,071	0
Bureau of Engraving and Printing	3,565	0	0	3,524	0	0	41	0	0
Internal Revenue Svc	13,945	0	0	0	0	8,897	0	5,048	0
Office of Protective Research	532	160	372	0	0	0	0	0	0
Office of Thrift Supervision 5/	3,023	0	0	0	0	0	0	3,023	0
United States Customs Svc	250	0	0	250	0	0	0	0	0
Department of Veterans Affairs	197,300	179,839	17,220	0	0	0	241	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-58. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Advisory Commission on Intergovernmental Relations	1,510	0	0	0	0	0	0	1,510	0
Agency for International Development	329,744	287,590	0	0	0	2,326	233	17,483	22,112
Appalachian Regional Commission	1,900	0	0	0	0	0	0	1,900	0
Consumer Product Safety Commission	818	0	0	115	0	0	703	0	0
Environmental Protection Agency	312,324	128,362	1,339	63,714	60,584	902	54,524	0	2,899
Federal Communications Commission	1,594	0	0	0	0	115	1,186	293	0
Federal Trade Commission	528	0	0	0	0	0	0	528	0
International Trade Commission	11,720	0	0	0	0	0	0	11,720	0
Library of Congress	1,571	0	0	0	0	0	0	0	1,571
Nat'l Aeronautics & Space Admin	1,761,354	136,876	9,134	76,299	284,476	48,134	1,198,031	43	8,361
Nat'l Archives & Records Admin	110	0	0	100	0	10	0	0	0
Nat'l Science Foundation	127,847	9,682	274	14,598	5,987	10,540	61,817	9,449	15,500
Nuclear Regulatory Commission	118,898	0	0	0	0	0	118,898	0	0
Tennessee Valley Authority	21,858	2,458	0	6,221	750	0	2,729	558	9,142
US Arms Control & Disarmament Agency	2,058	0	0	100	0	235	0	1,723	0
United States Information Agency	950	0	0	0	0	0	950	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-59. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	13,714,972	4,716,646	305,655	1,541,064	992,960	649,388	4,504,477	545,740	459,042
Departments:									
Department of Agriculture, total	629,661	457,436	200	42,960	9,278	8,632	25,606	85,549	0
Agricultural Cooperative Svc	3,097	0	0	0	0	0	0	3,097	0
Agricultural Marketing Svc 1/	3,729	3,729	0	0	0	0	0	0	0
Agricultural Research Svc	259,766	227,325	0	25,525	1,656	1,048	4,212	0	0
Cooperative State Research Svc	191,568	146,421	0	9,833	555	0	10,967	23,792	0
Economic Research Svc	51,920	0	0	0	0	0	0	51,920	0
Federal Grain Inspection Svc	1,139	1,139	0	0	0	0	0	0	0
Forest Svc	105,000	67,704	200	7,602	7,067	5,260	10,427	6,740	0
Human Nutrition Information Svc	10,788	10,788	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,324	0	0	0	0	2,324	0	0	0
Office of International Cooperation & Development	330	330	0	0	0	0	0	0	0
Department of Commerce, total	494,318	71,595	374	61,624	211,495	33,367	85,774	10,286	19,803
Bureau of the Census	2,699	0	235	0	0	1,702	0	696	66
Nat'l Inst of Standards & Tech	143,222	0	0	46,903	452	21,758	73,851	258	0
Nat'l Oceanic & Atmospheric Admin	342,121	71,595	139	14,721	211,043	9,907	5,647	9,332	19,737
Nat'l Telecomm & Information Admin	6,276	0	0	0	0	0	6,276	0	0
Department of Defense, total	3,365,000	396,809	73,518	438,641	131,963	359,665	1,835,513	1,270	127,621
Department of the Army	591,202	81,984	24,866	80,098	16,574	21,165	347,366	1,270	17,879
Department of the Navy	619,000	18,178	18,365	163,997	21,540	21,415	370,213	0	5,292
Department of the Air Force	829,215	60,574	30,287	83,289	60,574	37,859	556,632	0	0
Defense agencies	1,126,080	36,570	0	111,257	33,275	279,226	561,302	0	104,450
Health Affairs, Assistant Secretary of Defense for	199,503	199,503	0	0	0	0	0	0	0
Department of Education	140,020	16,179	5,178	0	0	1,883	5,648	111,132	0
Department of Energy	1,747,505	49,942	0	756,593	126,971	105,725	638,752	0	69,522
Dept of Health & Human Svcs, total	3,460,164	2,856,932	172,220	38,128	0	8,416	28,294	226,116	130,058
Admin on Aging 2/	2,860	0	0	0	0	0	0	2,860	0
Admin for Children and Families 2/	16,000	0	0	0	0	0	0	16,000	0
Agency for Health Care Policy & Research 3/	67,948	0	0	0	0	0	0	67,948	0
Alcohol, Drug Abuse, & Mental Health Admin	522,634	320,361	124,334	7,319	0	1,625	0	61,588	7,407
Centers for Disease Control	118,325	118,325	0	0	0	0	0	0	0
Food & Drug Admin	143,300	143,300	0	0	0	0	0	0	0
Health Care Financing Admin	36,000	0	0	0	0	0	0	36,000	0
Health Resources and Svcs Admin	9,673	9,673	0	0	0	0	0	0	0
Nat'l Institutes of Health	2,515,500	2,262,445	47,886	30,809	0	6,791	28,294	16,624	122,651
Office of Asst Secy for Health	2,828	2,828	0	0	0	0	0	0	0
Office of the Secretary	5,224	0	0	0	0	0	0	5,224	0
Social Security Admin	19,872	0	0	0	0	0	0	19,872	0
Dept of Housing & Urban Development	13,206	0	0	0	371	199	369	10,804	1,463

See explanatory information, if any, and SOURCE at end of table.

Table C-59. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Department of the Interior, total	311,448	96,855	0	25,507	123,241	10,192	51,349	4,304	0
Bureau of Land Management	8,850	8,646	0	0	0	0	0	204	0
Bureau of Mines	43,629	0	0	0	6,442	0	37,187	0	0
Bureau of Reclamation	8,300	2,955	0	2,510	15	0	2,820	0	0
Geological Survey	153,991	1,751	0	22,997	111,587	9,892	7,664	100	0
Minerals Management Svc	3,678	0	0	0	0	0	3,678	0	0
Nat'l Park Svc	29,500	22,200	0	0	3,000	300	0	4,000	0
Office of the Secretary	2,000	0	0	0	2,000	0	0	0	0
Office of Surface Mining Reclamation & Enforcement	400	203	0	0	197	0	0	0	0
US Fish & Wildlife Svc	61,100	61,100	0	0	0	0	0	0	0
Department of Justice, total	12,666	300	1,250	0	0	650	700	9,766	0
Bureau of Prisons 4/	2,000	0	400	0	0	0	0	1,600	0
Drug Enforcement Admin	300	0	0	0	0	0	300	0	0
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	9,966	300	850	0	0	650	0	8,166	0
Department of Labor, total	27,395	0	0	0	0	0	0	27,395	0
Bureau of Labor Statistics	8,400	0	0	0	0	0	0	8,400	0
Employment and Training Admin	3,800	0	0	0	0	0	0	3,800	0
Occupational Safety & Health Admin	3,219	0	0	0	0	0	0	3,219	0
Office of the Secretary	9,081	0	0	0	0	0	0	9,081	0
Pension Benefit Guaranty Corporation	535	0	0	0	0	0	0	535	0
Pension & Welfare Benefit Admin	2,360	0	0	0	0	0	0	2,360	0
Department of State	442	0	0	0	0	0	0	442	0
Department of Transportation, total	210,243	6,712	23,760	7,868	11,053	20,722	132,050	7,690	388
Coast Guard	7,375	0	698	0	819	1,970	3,888	0	0
Federal Aviation Admin	64,543	3,049	23,062	4,540	827	6,793	26,272	0	0
Federal Highway Admin	77,315	0	0	1,345	9,257	6,725	59,513	475	0
Federal Railroad Admin	21,197	0	0	1,695	0	0	16,746	2,756	0
Maritime Admin	1,734	0	0	0	50	0	1,684	0	0
Nat'l Highway Traffic Safety Admin	35,778	3,663	0	0	0	4,524	23,307	4,284	0
Office of the Secretary	763	0	0	288	0	0	400	75	0
Research & Special Programs Admin	1,538	0	0	0	100	710	240	100	388
Department of the Treasury, total	19,665	160	412	1,975	0	8,897	0	8,221	0
Bureau of Engraving and Printing	1,325	0	0	1,325	0	0	0	0	0
Internal Revenue Svc	13,945	0	0	0	0	8,897	0	5,048	0
Office of Protective Research	572	160	412	0	0	0	0	0	0
Office of Thrift Supervision 5/	3,173	0	0	0	0	0	0	3,173	0
United States Customs Svc	650	0	0	650	0	0	0	0	0
Department of Veterans Affairs	205,900	183,191	17,073	0	0	0	5,636	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-59. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Advisory Commission on Intergovernmental Relations	1,481	0	0	0	0	0	0	1,481	0
Agency for International Development	342,466	291,224	0	0	0	2,842	208	14,248	33,944
Appalachian Regional Commission	900	0	0	0	0	0	0	900	0
Consumer Product Safety Commission	1,090	0	0	470	0	0	620	0	0
Environmental Protection Agency	319,336	128,179	1,494	63,405	65,677	919	56,375	0	3,287
Federal Communications Commission	1,585	0	0	0	0	115	1,208	262	0
Federal Trade Commission	548	0	0	0	0	0	0	548	0
International Trade Commission	12,533	0	0	0	0	0	0	12,533	0
Library of Congress	1,573	0	0	0	0	0	0	0	1,573
Nat'l Aeronautics & Space Admin	2,103,082	150,622	9,837	85,654	304,775	73,190	1,433,486	46	45,472
Nat'l Archives & Records Admin	210	0	0	210	0	0	0	0	0
Nat'l Science Foundation	153,361	10,510	339	18,029	7,326	13,974	74,569	11,747	16,867
Nuclear Regulatory Commission	127,720	0	0	0	0	0	127,720	0	0
Tennessee Valley Authority	9,854	0	0	0	810	0	0	0	9,044
US Arms Control & Disarmament Agency	1,000	0	0	0	0	0	0	1,000	0
United States Information Agency	600	0	0	0	0	0	600	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-60. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	256,880	72,141	129,205	55,534	4,188,429	1,543,447	272,809	408,761	1,602,560	362,852
Departments:										
Department of Agriculture, total	196	0	196	0	445,361	66,866	112,347	257,901	8,247	0
Agricultural Marketing Svc 1/	0	0	0	0	3,716	0	0	3,716	0	0
Agricultural Research Svc	0	0	0	0	211,082	5,944	30,044	171,427	3,667	0
Cooperative State Research Svc	0	0	0	0	152,471	34,483	41,940	71,468	4,580	0
Federal Grain Inspection Svc	0	0	0	0	650	0	0	650	0	0
Forest Svc	196	0	196	0	66,802	26,439	40,363	0	0	0
Human Nutrition Information Svc	0	0	0	0	9,899	0	0	9,899	0	0
Office of International Cooperation & Development	0	0	0	0	741	0	0	741	0	0
Department of Commerce, total	374	0	374	0	68,242	10,269	41,451	13,939	2,583	0
Bureau of the Census	202	0	202	0	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	172	0	172	0	68,242	10,269	41,451	13,939	2,583	0
Department of Defense, total	72,018	3,137	68,881	0	189,087	20,958	5,636	0	119,461	43,032
Department of the Army	34,631	919	33,712	0	113,689	5,676	550	0	107,463	0
Department of the Navy	14,498	2,218	12,280	0	14,351	3,513	1,665	0	9,173	0
Department of the Air Force	22,889	0	22,889	0	45,779	0	1,831	0	916	43,032
Defense agencies	0	0	0	0	15,268	11,769	1,590	0	1,909	0
Department of Education	4,961	0	3,622	1,339	15,443	3,786	0	0	6,069	5,588
Department of Energy	0	0	0	0	124,281	4,164	425	325	115,587	3,780
Dept of Health & Human Svcs, total	149,062	52,189	43,661	53,212	2,527,711	1,258,510	381	46,284	1,108,993	113,543
Alcohol, Drug Abuse, & Mental Health Admin	109,849	52,012	42,686	15,151	282,015	153,658	213	425	119,788	8,933
Centers for Disease Control	0	0	0	0	113,372	0	0	0	113,372	0
Food & Drug Admin	0	0	0	0	125,020	64,350	0	45,859	0	14,811
Health Resources and Svcs Admin	0	0	0	0	9,519	0	0	0	9,519	0
Nat'l Institutes of Health	39,213	177	975	38,061	1,987,171	1,040,504	168	0	856,700	89,799
Office of Asst Secy for Health	0	0	0	0	9,614	0	0	0	9,614	0

See explanatory information, if any, and SOURCE at end of table.

Table C-60. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Department of the Interior, total	0	0	0	0	94,479	43,273	47,723	3,183	0	300
Bureau of Land Management	0	0	0	0	4,845	713	1,069	3,063	0	0
Bureau of Reclamation	0	0	0	0	1,882	0	1,882	0	0	0
Geological Survey	0	0	0	0	1,863	719	1,024	120	0	0
Nat'l Park Svc	0	0	0	0	20,600	1,000	19,300	0	0	300
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	489	0	489	0	0	0
US Fish & Wildlife Svc	0	0	0	0	64,800	40,841	23,959	0	0	0
Department of Justice, total	852	224	200	428	0	0	0	0	0	0
Bureau of Prisons 2/	400	0	200	200	0	0	0	0	0	0
Office of Justice Programs	452	224	0	228	0	0	0	0	0	0
Department of Transportation, total	2,658	0	2,658	0	4,160	1,876	0	0	2,284	0
Coast Guard	557	0	557	0	0	0	0	0	0	0
Federal Aviation Admin	2,101	0	2,101	0	2,505	221	0	0	2,284	0
Nat'l Highway Traffic Safety Admin	0	0	0	0	1,655	1,655	0	0	0	0
Department of the Treasury, total	266	0	0	266	140	0	0	0	140	0
Office of Protective Research	266	0	0	266	140	0	0	0	140	0
Department of Veterans Affairs	16,137	15,910	227	0	161,399	26,794	0	0	134,605	0
Other agencies:										
Agency for International Development	0	0	0	0	300,022	3,160	6,768	81,915	32,523	175,656
Environmental Protection Agency	1,091	658	433	0	117,381	66,772	43,572	887	6,150	0
Nat'l Aeronautics & Space Admin	9,043	0	8,863	180	129,427	32,284	10,271	40	65,898	20,934
Nat'l Science Foundation	222	23	90	109	9,009	4,733	4,235	0	0	41
Tennessee Valley Authority	0	0	0	0	2,287	0	0	2,287	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ Formerly listed as Federal Prison System

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-61. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	272,463	77,654	132,582	62,227	4,443,351	1,601,508	290,711	417,856	1,738,714	394,562
Departments:										
Department of Agriculture, total	211	0	211	0	473,960	72,742	120,247	272,463	8,508	0
Agricultural Marketing Svc 1/	0	0	0	0	4,074	0	0	4,074	0	0
Agricultural Research Svc	0	0	0	0	218,311	6,011	30,504	178,061	3,735	0
Cooperative State Research Svc	0	0	0	0	167,602	38,327	46,381	78,121	4,773	0
Federal Grain Inspection Svc	0	0	0	0	1,036	0	0	1,036	0	0
Forest Svc	211	0	211	0	71,766	28,404	43,362	0	0	0
Human Nutrition Information Svc	0	0	0	0	10,788	0	0	10,788	0	0
Office of International Cooperation & Development	0	0	0	0	383	0	0	383	0	0
Department of Commerce, total	394	0	394	0	85,872	15,043	53,214	14,868	2,747	0
Bureau of the Census	237	0	237	0	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	157	0	157	0	85,872	15,043	53,214	14,868	2,747	0
Department of Defense, total	67,383	3,237	64,146	0	205,443	27,749	6,169	0	127,936	43,589
Department of the Army	29,325	962	28,363	0	116,645	9,155	731	0	106,759	0
Department of the Navy	14,872	2,275	12,597	0	14,721	3,604	1,708	0	9,409	0
Department of the Air Force	23,186	0	23,186	0	46,371	0	1,855	0	927	43,589
Defense agencies	0	0	0	0	27,706	14,990	1,875	0	10,841	0
Department of Education	5,784	0	4,222	1,562	18,311	4,891	0	0	7,151	6,269
Department of Energy	0	0	0	0	84,202	3,955	475	375	73,153	6,244
Dept of Health & Human Svcs, total	162,735	56,376	46,616	59,743	2,728,668	1,285,941	409	52,440	1,260,496	129,382
Alcohol, Drug Abuse, & Mental Health Admin	117,153	56,161	45,491	15,501	301,821	161,448	217	434	129,955	9,767
Centers for Disease Control	0	0	0	0	117,400	0	0	0	117,400	0
Food & Drug Admin	0	0	0	0	137,706	70,439	0	52,006	0	15,261
Health Resources and Svcs Admin	0	0	0	0	9,594	0	0	0	9,594	0
Nat'l Institutes of Health	45,582	215	1,125	44,242	2,154,217	1,054,054	192	0	995,617	104,354
Office of Asst Secy for Health	0	0	0	0	7,930	0	0	0	7,930	0

See explanatory information, if any, and SOURCE at end of table.

Table C-61. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Department of the Interior, total	0	0	0	0	95,392	41,891	50,061	3,340	0	100
Bureau of Land Management	0	0	0	0	4,605	486	972	3,147	0	0
Bureau of Reclamation	0	0	0	0	3,220	0	3,220	0	0	0
Geological Survey	0	0	0	0	2,049	778	1,078	193	0	0
Nat'l Park Svc	0	0	0	0	22,500	1,000	21,400	0	0	100
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	118	0	118	0	0	0
US Fish & Wildlife Svc	0	0	0	0	62,900	39,627	23,273	0	0	0
Department of Justice, total	1,900	350	1,350	200	400	400	0	0	0	0
Bureau of Prisons 2/	400	0	200	200	0	0	0	0	0	0
Office of Justice Programs	1,500	350	1,150	0	400	400	0	0	0	0
Department of Transportation, total	5,717	0	5,717	0	6,136	2,998	0	0	3,138	0
Coast Guard	810	0	810	0	0	0	0	0	0	0
Federal Aviation Admin	4,907	0	4,907	0	3,481	343	0	0	3,138	0
Nat'l Highway Traffic Safety Admin	0	0	0	0	2,655	2,655	0	0	0	0
Department of the Treasury, total	372	0	0	372	160	0	0	0	160	0
Office of Protective Research	372	0	0	372	160	0	0	0	160	0
Department of Veterans Affairs	17,220	16,965	255	0	179,839	26,426	0	0	153,413	0
Other agencies:										
Agency for International Development	0	0	0	0	287,590	1,970	5,148	71,166	21,986	187,320
Environmental Protection Agency	1,339	697	642	0	128,362	81,750	38,967	699	6,946	0
Nat'l Aeronautics & Space Admin	9,134	0	8,921	213	136,876	30,991	11,651	47	73,080	21,107
Nat'l Science Foundation	274	29	108	137	9,682	4,761	4,370	0	0	551
Tennessee Valley Authority	0	0	0	0	2,458	0	0	2,458	0	0

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ Formerly listed as Federal Prison System

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-62. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	305,655	81,815	152,593	71,247	4,716,646	1,649,106	286,513	408,054	1,781,870	591,103
Departments:										
Department of Agriculture, total	200	0	200	0	457,436	71,165	109,607	271,093	5,571	0
Agricultural Marketing Svc 1/	0	0	0	0	3,729	0	0	3,729	0	0
Agricultural Research Svc	0	0	0	0	227,325	6,259	31,764	185,412	3,890	0
Cooperative State Research Svc	0	0	0	0	146,421	38,110	36,935	69,695	1,681	0
Federal Grain Inspection Svc	0	0	0	0	1,139	0	0	1,139	0	0
Forest Svc	200	0	200	0	67,704	26,796	40,908	0	0	0
Human Nutrition Information Svc	0	0	0	0	10,788	0	0	10,788	0	0
Office of International Cooperation & Development	0	0	0	0	330	0	0	330	0	0
Department of Commerce, total	374	0	374	0	71,595	9,766	46,093	13,733	2,003	0
Bureau of the Census	235	0	235	0	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	139	0	139	0	71,595	9,766	46,093	13,733	2,003	0
Department of Defense, total	73,518	3,545	69,973	0	396,809	27,074	12,478	0	300,317	56,940
Department of the Army	24,866	735	24,131	0	81,984	7,579	493	0	73,912	0
Department of the Navy	18,365	2,810	15,555	0	18,178	4,450	2,109	0	11,619	0
Department of the Air Force	30,287	0	30,287	0	60,574	0	2,423	0	1,211	56,940
Defense agencies	0	0	0	0	36,570	15,045	7,453	0	14,072	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	199,503	0	0	0	199,503	0
Department of Education	5,178	0	3,780	1,398	16,179	3,954	0	0	6,355	5,870
Department of Energy	0	0	0	0	49,942	3,334	475	375	39,312	6,446
Dept of Health & Human Svcs, total	172,220	59,913	49,423	62,884	2,856,932	1,351,067	428	54,572	1,314,966	135,899
Alcohol, Drug Abuse, & Mental Health Admin	124,334	59,687	48,241	16,406	320,361	171,090	227	454	138,202	10,388
Centers for Disease Control	0	0	0	0	118,325	0	0	0	118,325	0
Food & Drug Admin	0	0	0	0	143,300	73,300	0	54,118	0	15,882
Health Resources and Svcs Admin	0	0	0	0	9,673	0	0	0	9,673	0
Nat'l Institutes of Health	47,886	226	1,182	46,478	2,262,445	1,106,677	201	0	1,045,938	109,629
Office of Asst Secy for Health	0	0	0	0	2,828	0	0	0	2,828	0

See explanatory information, if any, and SOURCE at end of table.

Table C-62. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Department of the Interior, total	0	0	0	0	96,855	41,576	49,548	5,531	0	200
Bureau of Land Management	0	0	0	0	8,646	1,272	1,908	5,466	0	0
Bureau of Reclamation	0	0	0	0	2,955	0	2,955	0	0	0
Geological Survey	0	0	0	0	1,751	793	893	65	0	0
Nat'l Park Svc	0	0	0	0	22,200	1,000	21,000	0	0	200
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	203	0	203	0	0	0
US Fish & Wildlife Svc	0	0	0	0	61,100	38,511	22,589	0	0	0
Department of Justice, total	1,250	350	700	200	300	300	0	0	0	0
Bureau of Prisons 2/	400	0	200	200	0	0	0	0	0	0
Office of Justice Programs	850	350	500	0	300	300	0	0	0	0
Department of Transportation, total	23,760	477	17,330	5,953	6,712	4,177	0	0	0	2,535
Coast Guard	698	0	698	0	0	0	0	0	0	0
Federal Aviation Admin	23,062	477	16,632	5,953	3,049	514	0	0	0	2,535
Nat'l Highway Traffic Safety Admin	0	0	0	0	3,663	3,663	0	0	0	0
Department of the Treasury, total	412	0	0	412	160	0	0	0	160	0
Office of Protective Research	412	0	0	412	160	0	0	0	160	0
Department of Veterans Affairs	17,073	16,791	282	0	183,191	21,525	0	0	0	161,666
Other agencies:										
Agency for International Development	0	0	0	0	291,224	1,493	3,983	61,569	24,614	199,565
Environmental Protection Agency	1,494	703	791	0	128,179	72,018	47,103	1,130	7,928	0
Nat'l Aeronautics & Space Admin	9,837	0	9,610	227	150,622	36,813	11,934	51	80,644	21,180
Nat'l Science Foundation	339	36	130	173	10,510	4,844	4,864	0	0	802

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ Formerly listed as Federal Prison System

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-63. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,353,874	19,346	289,689	815,981	228,858	886,257	353,728	229,749	201,043	101,737
Departments:										
Department of Agriculture, total	41,661	0	39,042	2,619	0	9,173	3,284	5,889	0	0
Agricultural Research Svc	22,690	0	21,490	1,200	0	1,655	1,454	201	0	0
Cooperative State Research Svc	11,470	0	11,470	0	0	545	545	0	0	0
Forest Svc	7,501	0	6,082	1,419	0	6,973	1,285	5,688	0	0
Department of Commerce, total	44,205	140	16,812	27,253	0	184,690	74,854	7,618	97,906	4,312
Nat'l Inst of Standards & Tech	28,800	140	8,998	19,662	0	286	0	286	0	0
Nat'l Oceanic & Atmospheric Admin	15,405	0	7,814	7,591	0	184,404	74,854	7,332	97,906	4,312
Department of Defense, total	394,395	0	69,884	270,032	54,479	110,371	52,944	38,396	12,667	6,364
Department of the Army	80,490	0	39,333	17,516	23,641	12,969	5,713	554	338	6,364
Department of the Navy	128,678	0	12,140	113,663	2,875	17,004	3,214	1,508	12,282	0
Department of the Air Force	63,298	0	18,411	41,740	3,147	45,778	39,827	5,951	0	0
Defense agencies	121,929	0	0	97,113	24,816	34,620	4,190	30,383	47	0
Department of Energy	670,588	0	60,943	458,015	151,630	113,560	4,510	39,935	198	68,917
Dept of Health & Human Svcs, total	32,306	0	25,844	6,462	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	7,078	0	7,078	0	0	0	0	0	0	0
Nat'l Institutes of Health	25,228	0	18,766	6,462	0	0	0	0	0	0
Dept of Housing & Urban Development	0	0	0	0	0	187	0	0	0	187
Department of the Interior, total	22,860	0	17,983	2,877	2,000	130,899	740	109,417	10,921	9,821
Bureau of Mines	0	0	0	0	0	10,041	0	1,109	0	8,932
Bureau of Reclamation	2,000	0	0	0	2,000	239	140	99	0	0
Geological Survey	20,860	0	17,983	2,877	0	117,153	600	105,632	10,921	0
Nat'l Park Svc	0	0	0	0	0	2,814	0	2,025	0	789
Office of the Secretary	0	0	0	0	0	100	0	0	0	100
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	0	552	0	552	0	0
Department of Transportation, total	2,788	0	1,272	1,316	200	2,421	190	1,095	803	333
Coast Guard	0	0	0	0	0	803	0	0	803	0
Federal Highway Admin	1,796	0	1,272	524	0	1,618	190	1,095	0	333
Federal Railroad Admin	792	0	0	792	0	0	0	0	0	0
Office of the Secretary	200	0	0	0	200	0	0	0	0	0
Department of the Treasury, total	3,219	0	1,936	503	780	0	0	0	0	0
Bureau of Engraving and Printing	2,719	0	1,936	3	780	0	0	0	0	0
United States Customs Svc	500	0	0	500	0	0	0	0	0	0
Other agencies:										
Consumer Product Safety Commission	178	0	178	0	0	0	0	0	0	0
Environmental Protection Agency	37,304	0	36,051	1,253	0	62,326	54,274	7,305	747	0
Nat'l Aeronautics & Space Admin	86,199	19,117	8,293	39,670	19,119	267,342	161,588	17,778	76,900	11,076
Nat'l Archives & Records Admin	185	0	60	125	0	0	0	0	0	0
Nat'l Science Foundation	11,111	89	4,516	5,856	650	4,538	594	2,316	901	727
Tennessee Valley Authority	6,875	0	6,875	0	0	750	750	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-64. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,470,921	8,744	328,606	921,010	212,561	973,046	362,663	252,807	217,819	139,757
Departments:										
Department of Agriculture, total	44,847	0	41,961	2,886	0	9,650	3,336	6,314	0	0
Agricultural Research Svc	24,514	0	23,153	1,361	0	1,591	1,388	203	0	0
Cooperative State Research Svc	12,275	0	12,275	0	0	568	568	0	0	0
Forest Svc	8,058	0	6,533	1,525	0	7,491	1,380	6,111	0	0
Department of Commerce, total	57,403	0	19,877	37,519	7	201,002	83,517	9,116	103,757	4,612
Nat'l Inst of Standards & Tech	41,397	0	11,735	29,655	7	342	0	342	0	0
Nat'l Oceanic & Atmospheric Admin	16,006	0	8,142	7,864	0	200,660	83,517	8,774	103,757	4,612
Department of Defense, total	406,653	0	69,540	277,454	59,659	123,912	53,969	42,274	12,945	14,724
Department of the Army	86,152	0	38,461	25,663	22,028	20,972	5,141	762	345	14,724
Department of the Navy	133,054	0	12,454	117,651	2,949	17,444	3,297	1,547	12,600	0
Department of the Air Force	64,062	0	18,625	42,249	3,188	46,371	40,343	6,028	0	0
Defense agencies	123,385	0	0	91,891	31,494	39,125	5,188	33,937	0	0
Department of Energy	733,451	0	66,085	535,376	131,990	143,392	6,875	42,022	0	94,495
Dept of Health & Human Svcs, total	36,245	0	28,728	7,517	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	6,919	0	6,919	0	0	0	0	0	0	0
Nat'l Institutes of Health	29,326	0	21,809	7,517	0	0	0	0	0	0
Dept of Housing & Urban Development	0	0	0	0	0	369	0	0	0	369
Department of the Interior, total	24,555	0	19,444	3,111	2,000	134,133	400	112,033	11,212	10,488
Bureau of Mines	0	0	0	0	0	10,933	0	1,345	0	9,588
Bureau of Reclamation	2,000	0	0	0	2,000	0	0	0	0	0
Geological Survey	22,555	0	19,444	3,111	0	120,164	400	108,552	11,212	0
Nat'l Park Svc	0	0	0	0	0	2,700	0	2,000	0	700
Office of the Secretary	0	0	0	0	0	200	0	0	0	200
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	0	136	0	136	0	0
Department of Transportation, total	2,846	0	0	2,581	265	8,791	265	7,224	887	415
Coast Guard	0	0	0	0	0	822	0	0	822	0
Federal Highway Admin	1,127	0	0	1,127	0	7,754	265	7,224	0	265
Federal Railroad Admin	1,454	0	0	1,454	0	0	0	0	0	0
Maritime Admin	0	0	0	0	0	50	0	0	0	50
Office of the Secretary	265	0	0	0	265	0	0	0	0	0
Research & Special Programs Admin	0	0	0	0	0	165	0	0	65	100
Department of the Treasury, total	3,774	0	1,261	374	2,139	0	0	0	0	0
Bureau of Engraving and Printing	3,524	0	1,261	124	2,139	0	0	0	0	0
United States Customs Svc	250	0	0	250	0	0	0	0	0	0
Other agencies:										
Consumer Product Safety Commission	115	0	115	0	0	0	0	0	0	0
Environmental Protection Agency	63,714	0	59,668	4,046	0	60,584	53,149	5,397	2,038	0
Nat'l Aeronautics & Space Admin	76,299	8,427	9,237	43,420	15,215	284,476	159,728	25,627	86,007	13,114
Nat'l Archives & Records Admin	100	0	70	30	0	0	0	0	0	0
Nat'l Science Foundation	14,598	317	6,299	6,696	1,286	5,987	674	2,800	973	1,540
Tennessee Valley Authority	6,221	0	6,221	0	0	750	750	0	0	0
US Arms Control & Disarmament Agency	100	0	100	0	0	0	0	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-65. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,541,064	9,562	321,370	976,732	233,400	992,960	387,388	238,567	239,357	127,648
Departments:										
Department of Agriculture, total	42,960	0	40,105	2,855	0	9,278	3,302	5,976	0	0
Agricultural Research Svc	25,525	0	24,108	1,417	0	1,656	1,445	211	0	0
Cooperative State Research Svc	9,833	0	9,833	0	0	555	555	0	0	0
Forest Svc	7,602	0	6,164	1,438	0	7,067	1,302	5,765	0	0
Department of Commerce, total	61,624	0	20,459	39,251	1,914	211,495	86,355	5,815	114,389	4,936
Nat'l Inst of Standards & Tech	46,903	0	12,984	32,005	1,914	452	0	452	0	0
Nat'l Oceanic & Atmospheric Admin	14,721	0	7,475	7,246	0	211,043	86,355	5,363	114,389	4,936
Department of Defense, total	438,641	0	71,604	300,359	66,678	131,963	69,165	36,717	15,797	10,284
Department of the Army	80,098	0	32,072	23,564	24,462	16,574	5,315	736	239	10,284
Department of the Navy	163,997	0	15,378	144,977	3,642	21,540	4,071	1,911	15,558	0
Department of the Air Force	83,289	0	24,154	54,971	4,164	60,574	52,699	7,875	0	0
Defense agencies	111,257	0	0	76,847	34,410	33,275	7,080	26,195	0	0
Department of Energy	756,593	0	58,222	556,505	141,866	126,971	3,775	36,187	0	87,009
Dept of Health & Human Svcs, total	38,128	0	30,231	7,897	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	7,319	0	7,319	0	0	0	0	0	0	0
Nat'l Institutes of Health	30,809	0	22,912	7,897	0	0	0	0	0	0
Dept of Housing & Urban Development	0	0	0	0	0	371	0	0	0	371
Department of the Interior, total	25,507	0	19,825	3,172	2,510	123,241	225	104,055	10,524	8,437
Bureau of Mines	0	0	0	0	0	6,442	0	805	0	5,637
Bureau of Reclamation	2,510	0	0	0	2,510	15	0	15	0	0
Geological Survey	22,997	0	19,825	3,172	0	111,587	225	100,838	10,524	0
Nat'l Park Svc	0	0	0	0	0	3,000	0	2,200	0	800
Office of the Secretary	0	0	0	0	0	2,000	0	0	0	2,000
Office of Surface Mining Reclamation & Enforcement	0	0	0	0	0	197	0	197	0	0
Department of Transportation, total	7,868	0	440	7,140	288	11,053	1,143	8,624	819	467
Coast Guard	0	0	0	0	0	819	0	0	819	0
Federal Aviation Admin	4,540	0	440	4,100	0	827	827	0	0	0
Federal Highway Admin	1,345	0	0	1,345	0	9,257	316	8,624	0	317
Federal Railroad Admin	1,695	0	0	1,695	0	0	0	0	0	0
Maritime Admin	0	0	0	0	0	50	0	0	0	50
Office of the Secretary	288	0	0	0	288	0	0	0	0	0
Research & Special Programs Admin	0	0	0	0	0	100	0	0	0	100
Department of the Treasury, total	1,975	0	905	700	370	0	0	0	0	0
Bureau of Engraving and Printing	1,325	0	905	50	370	0	0	0	0	0
United States Customs Svc	650	0	0	650	0	0	0	0	0	0
Other agencies:										
Consumer Product Safety Commission	470	0	470	0	0	0	0	0	0	0
Environmental Protection Agency	63,405	0	59,139	4,266	0	65,677	55,001	6,298	4,378	0
Nat'l Aeronautics & Space Admin	85,654	9,000	11,930	46,374	18,350	304,775	166,821	31,649	92,298	14,007
Nat'l Archives & Records Admin	210	0	70	140	0	0	0	0	0	0
Nat'l Science Foundation	18,029	562	7,970	8,073	1,424	7,326	791	3,246	1,152	2,137
Tennessee Valley Authority	0	0	0	0	0	810	810	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-66. Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	3,710,760	760,009	583,443	202,631	245,736	587,448	219,953	415,347	696,193
Departments:									
Department of Agriculture, total	28,605	0	0	5,267	4,020	335	2,680	0	16,303
Agricultural Research Svc	4,719	0	0	3,071	1,098	294	256	0	0
Cooperative State Research Svc	13,599	0	0	0	0	0	0	0	13,599
Forest Svc	10,287	0	0	2,196	2,922	41	2,424	0	2,704
Department of Commerce, total	59,014	0	0	3,508	5,237	14,294	2,683	13,627	19,665
Nat'l Inst of Standards & Tech	48,966	0	0	3,508	4,213	9,223	2,683	13,627	15,712
Nat'l Oceanic & Atmospheric Admin	6,473	0	0	0	1,024	1,496	0	0	3,953
Nat'l Telecomm & Information Admin	3,575	0	0	0	0	3,575	0	0	0
Department of Defense, total	1,577,348	197,536	111,074	37,247	138,758	496,284	144,145	341,595	110,709
Department of the Army	368,080	39,335	1,495	26,605	34,402	141,810	57,083	29,145	38,205
Department of the Navy	290,386	7,346	45,574	7,346	13,634	103,269	62,030	49,277	1,910
Department of the Air Force	414,819	150,855	58,596	3,296	2,930	149,221	23,186	19,410	7,325
Defense agencies	504,063	0	5,409	0	87,792	101,984	1,846	243,763	63,269
Department of Education	5,412	0	0	0	0	0	0	0	5,412
Department of Energy	551,426	0	0	104,528	32,303	42,473	32,455	6,161	333,506
Dept of Health & Human Svcs, total	23,170	0	0	0	0	0	0	0	23,170
Nat'l Institutes of Health	23,170	0	0	0	0	0	0	0	23,170
Dept of Housing & Urban Development	135	0	0	0	0	0	0	0	135
Department of the Interior, total	60,724	0	0	7,123	3,767	967	1,272	15,107	32,488
Bureau of Mines	46,159	0	0	0	0	0	0	15,033	31,126
Bureau of Reclamation	3,524	0	0	126	1,300	667	232	61	1,138
Geological Survey	8,355	0	0	5,755	1,900	300	400	0	0
Minerals Management Svc	2,686	0	0	1,242	567	0	640	13	224
Department of Justice, total	1,300	0	0	0	0	200	200	0	900
Drug Enforcement Admin	900	0	0	0	0	0	0	0	900
Immigration & Naturalization Svc	400	0	0	0	0	200	200	0	0
Department of Transportation, total	78,932	2,879	200	6,119	40,676	9,154	17,839	550	1,515
Coast Guard	3,321	0	0	0	593	1,418	548	0	762
Federal Aviation Admin	10,386	2,879	0	0	1,090	6,417	0	0	0
Federal Highway Admin	39,738	0	0	5,855	33,454	0	143	286	0
Federal Railroad Admin	9,763	0	0	264	3,826	1,319	3,694	264	396
Maritime Admin	1,713	0	0	0	1,713	0	0	0	0
Nat'l Highway Traffic Safety Admin	13,454	0	0	0	0	0	13,454	0	0
Office of the Secretary	350	0	200	0	0	0	0	0	150
Research & Special Programs Admin	207	0	0	0	0	0	0	0	207
Department of Veterans Affairs	164	0	0	0	0	0	0	0	164
Other agencies:									
Agency for International Development	906	0	0	0	725	0	0	0	181
Consumer Product Safety Commission	705	0	0	0	0	0	0	0	705
Environmental Protection Agency	41,199	0	0	21,634	15,043	886	2,286	178	1,172
Federal Communications Commission	928	0	0	0	0	888	0	0	40
Nat'l Aeronautics & Space Admin	1,114,549	559,431	472,169	4,273	0	9,880	9,794	34,116	24,886
Nat'l Science Foundation	56,298	163	0	11,937	5,207	11,987	6,599	4,013	16,392
Nuclear Regulatory Commission	108,800	0	0	0	0	0	0	0	108,800
Tennessee Valley Authority	850	0	0	850	0	0	0	0	0
US Arms Control & Disarmament Agency	195	0	0	145	0	0	0	0	50
United States Information Agency	100	0	0	0	0	100	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-67. Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	4,090,777	883,247	583,993	238,360	291,230	590,425	208,334	448,218	846,970
Departments:									
Department of Agriculture, total	29,742	0	0	4,648	4,327	338	2,879	0	17,550
Agricultural Research Svc	4,045	0	0	2,288	1,188	294	275	0	0
Cooperative State Research Svc	14,645	0	0	0	0	0	0	0	14,645
Forest Svc	11,052	0	0	2,360	3,139	44	2,604	0	2,905
Department of Commerce, total	80,989	0	94	5,140	6,751	19,140	3,751	21,573	24,540
Nat'l Inst of Standards & Tech	70,252	0	94	5,140	5,711	13,640	3,751	21,573	20,343
Nat'l Oceanic & Atmospheric Admin	6,786	0	0	0	1,040	1,549	0	0	4,197
Nat'l Telecomm & Information Admin	3,951	0	0	0	0	3,951	0	0	0
Department of Defense, total	1,675,481	215,831	112,951	44,730	166,542	482,543	136,694	374,813	141,377
Department of the Army	386,201	45,875	3,731	26,791	37,722	133,503	55,481	57,062	26,036
Department of the Navy	299,281	7,536	47,265	7,536	13,986	106,791	63,645	50,563	1,959
Department of the Air Force	421,674	162,420	61,955	3,339	2,968	148,073	15,839	19,661	7,419
Defense agencies	568,325	0	0	7,064	111,866	94,176	1,729	247,527	105,963
Department of Education	6,310	0	0	0	0	0	0	0	6,310
Department of Energy	655,582	0	0	121,885	35,990	42,624	21,981	4,708	428,394
Dept of Health & Human Svcs, total	26,933	0	0	0	0	0	0	0	26,933
Nat'l Institutes of Health	26,933	0	0	0	0	0	0	0	26,933
Dept of Housing & Urban Development	581	0	0	0	0	0	0	0	581
Department of the Interior, total	65,089	0	0	8,487	4,842	770	1,328	16,066	33,596
Bureau of Mines	47,502	0	0	0	0	0	0	15,955	31,547
Bureau of Reclamation	5,480	0	0	0	2,681	570	313	50	1,866
Geological Survey	8,422	0	0	6,222	1,700	200	300	0	0
Minerals Management Svc	3,685	0	0	2,265	461	0	715	61	183
Department of Justice, total	700	0	0	0	0	200	200	0	300
Drug Enforcement Admin	300	0	0	0	0	0	0	0	300
Immigration & Naturalization Svc	400	0	0	0	0	200	200	0	0
Department of Transportation, total	110,017	3,384	200	1,677	50,444	18,985	24,471	493	10,363
Coast Guard	3,733	0	0	0	595	1,602	783	0	753
Federal Aviation Admin	17,462	3,384	0	0	0	14,078	0	0	0
Federal Highway Admin	51,816	0	0	1,193	41,078	862	0	0	8,683
Federal Railroad Admin	17,928	0	0	484	7,026	2,423	6,784	484	727
Maritime Admin	1,701	0	0	0	1,701	0	0	0	0
Nat'l Highway Traffic Safety Admin	16,889	0	0	0	0	0	16,889	0	0
Office of the Secretary	400	0	200	0	0	0	0	0	200
Research & Special Programs Admin	88	0	0	0	44	20	15	9	0
Department of the Treasury, total	41	0	0	0	0	0	41	0	0
Bureau of Engraving and Printing	41	0	0	0	0	0	41	0	0
Department of Veterans Affairs	241	0	0	0	0	0	0	0	241
Other agencies:									
Agency for International Development	233	0	0	0	0	0	0	0	233
Consumer Product Safety Commission	703	0	0	0	0	0	0	0	703
Environmental Protection Agency	54,524	0	0	31,437	16,755	936	4,004	370	1,022
Federal Communications Commission	1,186	0	0	0	0	1,124	0	0	62
Nat'l Aeronautics & Space Admin	1,198,031	663,856	470,748	4,125	0	9,507	5,866	25,815	18,114
Nat'l Science Foundation	61,817	176	0	13,502	5,579	13,308	7,119	4,380	17,753
Nuclear Regulatory Commission	118,898	0	0	0	0	0	0	0	118,898
Tennessee Valley Authority	2,729	0	0	2,729	0	0	0	0	0
United States Information Agency	950	0	0	0	0	950	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-68. Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	4,504,477	1,052,675	688,528	204,265	324,765	657,624	245,861	362,875	967,884
Departments:									
Department of Agriculture, total	25,606	0	0	4,609	4,197	347	2,745	0	13,708
Agricultural Research Svc	4,212	0	0	2,383	1,236	305	288	0	0
Cooperative State Research Svc	10,967	0	0	0	0	0	0	0	10,967
Forest Svc	10,427	0	0	2,226	2,961	42	2,457	0	2,741
Department of Commerce, total	85,774	0	99	5,575	7,015	20,354	2,157	24,736	25,838
Nat'l Inst of Standards & Tech	73,851	0	99	5,575	6,001	12,662	2,157	24,736	22,621
Nat'l Oceanic & Atmospheric Admin	5,647	0	0	0	1,014	1,416	0	0	3,217
Nat'l Telecomm & Information Admin	6,276	0	0	0	0	6,276	0	0	0
Department of Defense, total	1,835,513	255,204	144,113	30,906	191,939	531,356	161,804	267,927	252,264
Department of the Army	347,366	35,984	2,772	17,240	41,543	114,151	59,525	44,645	31,506
Department of the Navy	370,213	9,305	58,363	9,305	17,271	131,290	79,207	63,053	2,419
Department of the Air Force	556,632	209,915	77,535	4,361	3,877	204,145	21,424	25,683	9,692
Defense agencies	561,302	0	5,443	0	129,248	81,770	1,648	134,546	208,647
Department of Education	5,648	0	0	0	0	0	0	0	5,648
Department of Energy	638,752	0	0	96,670	40,322	46,698	22,606	3,823	428,633
Dept of Health & Human Svcs, total	28,294	0	0	0	0	0	0	0	28,294
Nat'l Institutes of Health	28,294	0	0	0	0	0	0	0	28,294
Dept of Housing & Urban Development	369	0	0	0	0	0	0	0	369
Department of the Interior, total	51,349	0	0	8,714	2,846	460	1,058	13,491	24,780
Bureau of Mines	37,187	0	0	0	0	0	0	12,591	24,596
Bureau of Reclamation	2,820	0	0	110	1,385	340	145	840	0
Geological Survey	7,664	0	0	6,344	1,000	120	200	0	0
Minerals Management Svc	3,678	0	0	2,260	461	0	713	60	184
Department of Justice, total	700	0	0	0	0	200	200	0	300
Drug Enforcement Admin	300	0	0	0	0	0	0	0	300
Immigration & Naturalization Svc	400	0	0	0	0	200	200	0	0
Department of Transportation, total	132,050	13,757	200	2,948	54,335	8,063	32,837	7,773	12,137
Coast Guard	3,888	0	0	0	555	1,729	807	0	797
Federal Aviation Admin	26,272	13,757	0	1,100	0	2,338	1,940	7,137	0
Federal Highway Admin	59,513	0	0	1,424	46,697	1,028	0	0	10,364
Federal Railroad Admin	16,746	0	0	424	5,299	2,968	6,723	636	636
Maritime Admin	1,684	0	0	0	1,684	0	0	0	0
Nat'l Highway Traffic Safety Admin	23,307	0	0	0	0	0	23,307	0	0
Office of the Secretary	400	0	200	0	0	0	0	0	200
Research & Special Programs Admin	240	0	0	0	100	0	0	0	140
Department of Veterans Affairs	5,636	0	0	0	0	0	0	0	5,636
Other agencies:									
Agency for International Development	208	0	0	0	0	0	0	0	208
Consumer Product Safety Commission	620	0	0	0	0	0	0	0	620
Environmental Protection Agency	56,375	0	0	32,532	17,378	973	4,155	317	1,020
Federal Communications Commission	1,208	0	0	0	0	1,164	0	0	44
Nat'l Aeronautics & Space Admin	1,433,486	783,503	544,116	6,128	0	31,108	9,731	39,553	19,347
Nat'l Science Foundation	74,569	211	0	16,183	6,733	16,301	8,568	5,255	21,318
Nuclear Regulatory Commission	127,720	0	0	0	0	0	0	0	127,720
United States Information Agency	600	0	0	0	0	600	0	0	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-69. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	477,598	63,229	361,425	52,944	566,014	3,281	150,099	9,958	155,738	246,938
Departments:										
Department of Agriculture, total	8,344	7,465	879	0	84,547	0	77,929	373	6,180	65
Agricultural Cooperative Svc	0	0	0	0	2,814	0	2,814	0	0	0
Agricultural Research Svc	977	98	879	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	28,324	0	23,517	0	4,807	0
Economic Research Svc	0	0	0	0	46,758	0	45,879	145	669	65
Forest Svc	5,190	5,190	0	0	6,651	0	5,719	228	704	0
Nat'l Agricultural Statistics Svc	2,177	2,177	0	0	0	0	0	0	0	0
Department of Commerce, total	25,994	8,943	13,481	3,570	12,050	0	4,590	4,189	2,987	284
Bureau of the Census	1,460	1,267	193	0	597	0	325	272	0	0
Economic Development Admin	0	0	0	0	1,381	0	1,381	0	0	0
Nat'l Inst of Standards & Tech	14,151	2,909	7,672	3,570	263	0	263	0	0	0
Nat'l Oceanic & Atmospheric Admin	10,383	4,767	5,616	0	9,809	0	2,621	3,917	2,987	284
Department of Defense, total	248,097	9,421	218,781	19,895	1,774	0	1,064	0	710	0
Department of the Army	31,638	2,924	20,497	8,217	1,774	0	1,064	0	710	0
Department of the Navy	16,906	473	15,572	861	0	0	0	0	0	0
Department of the Air Force	28,612	4,006	20,887	3,719	0	0	0	0	0	0
Defense agencies	170,941	2,018	161,825	7,098	0	0	0	0	0	0
Department of Education	1,804	0	0	1,804	95,494	0	0	0	1,271	94,223
Department of Energy	82,745	0	64,395	18,350	0	0	0	0	0	0
Dept of Health & Human Svcs, total	6,997	2,963	470	3,564	266,626	748	6,613	1,887	134,264	123,114
Admin on Aging 1/	0	0	0	0	2,854	0	0	0	0	2,854
Admin for Children and Families 1/	0	0	0	0	13,500	0	0	0	0	13,500
Agency for Health Care Policy & Research 2/	0	0	0	0	93,041	0	0	0	93,041	0
Alcohol, Drug Abuse, & Mental Health Admin	1,439	969	470	0	55,562	748	1,326	1,446	38,140	13,902
Health Care Financing Admin	0	0	0	0	69,075	0	0	0	0	69,075
Nat'l Institutes of Health	5,558	1,994	0	3,564	13,607	0	0	0	0	13,607
Office of the Secretary	0	0	0	0	8,811	0	5,287	441	3,083	0
Social Security Admin	0	0	0	0	10,176	0	0	0	0	10,176
Dept of Housing & Urban Development	199	0	199	0	6,578	0	6,532	5	32	9
Department of the Interior, total	11,174	1,839	9,335	0	3,911	1,400	150	0	1,260	1,101
Geological Survey	10,824	1,839	8,985	0	201	0	0	0	0	201
Nat'l Park Svc	350	0	350	0	3,710	1,400	150	0	1,260	900
Department of Justice, total	700	300	400	0	9,829	350	250	500	4,129	4,600
Bureau of Prisons 3/	0	0	0	0	1,500	50	50	0	800	600
Office of Justice Programs	700	300	400	0	8,329	300	200	500	3,329	4,000

See explanatory information, if any, and SOURCE at end of table.

Table C-69. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Department of Labor, total	0	0	0	0	24,027	0	23,047	0	0	980
Bureau of Labor Statistics	0	0	0	0	7,500	0	7,500	0	0	0
Employment and Training Admin	0	0	0	0	6,300	0	6,300	0	0	0
Occupational Safety & Health Admin	0	0	0	0	2,603	0	2,603	0	0	0
Office of the Secretary	0	0	0	0	4,729	0	3,749	0	0	980
Pension Benefit Guaranty Corporation	0	0	0	0	355	0	355	0	0	0
Pension & Welfare Benefit Admin	0	0	0	0	2,540	0	2,540	0	0	0
Department of State	0	0	0	0	1,256	0	13	77	0	1,166
Department of Transportation, total	16,327	762	12,585	2,980	6,619	0	3,340	595	2,684	0
Coast Guard	1,703	0	1,703	0	0	0	0	0	0	0
Federal Aviation Admin	8,971	0	8,971	0	0	0	0	0	0	0
Federal Highway Admin	2,238	762	1,476	0	666	0	666	0	0	0
Federal Railroad Admin	0	0	0	0	2,638	0	2,638	0	0	0
Nat'l Highway Traffic Safety Admin	2,980	0	0	2,980	3,279	0	0	595	2,684	0
Office of the Secretary	0	0	0	0	36	0	36	0	0	0
Research & Special Programs Admin	435	0	435	0	0	0	0	0	0	0
Department of the Treasury, total	8,897	7,562	1,335	0	8,038	0	6,271	0	0	1,767
Internal Revenue Svc	8,897	7,562	1,335	0	5,048	0	3,281	0	0	1,767
Office of Thrift Supervision 4/	0	0	0	0	2,990	0	2,990	0	0	0
Other agencies:										
Advisory Commission on Intergovernmental Relations	0	0	0	0	1,663	0	831	832	0	0
Agency for International Development	4,112	0	4,112	0	23,598	0	5,448	838	863	16,449
Appalachian Regional Commission	0	0	0	0	742	0	0	0	0	742
Environmental Protection Agency	773	0	773	0	0	0	0	0	0	0
Federal Communications Commission	75	0	75	0	439	0	359	0	0	80
Federal Trade Commission	0	0	0	0	957	0	957	0	0	0
International Trade Commission	0	0	0	0	9,885	0	9,885	0	0	0
Nat'l Aeronautics & Space Admin	52,358	22,687	26,890	2,781	36	0	36	0	0	0
Nat'l Archives & Records Admin	70	70	0	0	0	0	0	0	0	0
Nat'l Science Foundation	8,932	1,217	7,715	0	7,269	783	2,303	467	1,358	2,358
Tennessee Valley Authority	0	0	0	0	481	0	481	0	0	0
US Arms Control & Disarmament Agency	0	0	0	0	195	0	0	195	0	0

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ Formerly listed as Federal Prison System

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-70. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	640,576	67,072	503,632	69,872	628,762	3,512	157,301	11,643	162,768	293,538
Departments:										
Department of Agriculture, total	8,879	7,973	906	0	90,710	0	83,800	402	6,438	70
Agricultural Cooperative Svc	0	0	0	0	3,518	0	3,518	0	0	0
Agricultural Research Svc	1,006	100	906	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	29,547	0	24,588	0	4,959	0
Economic Research Svc	0	0	0	0	50,499	0	49,550	157	722	70
Forest Svc	5,576	5,576	0	0	7,148	0	6,144	245	757	0
Nat'l Agricultural Statistics Svc	2,297	2,297	0	0	0	0	0	0	0	0
Department of Commerce, total	34,796	10,447	19,641	4,708	12,151	0	3,304	4,910	3,677	260
Bureau of the Census	1,719	1,492	227	0	703	0	384	319	0	0
Economic Development Admin	0	0	0	0	500	0	500	0	0	0
Nat'l Inst of Standards & Tech	21,684	3,715	13,261	4,708	241	0	241	0	0	0
Nat'l Oceanic & Atmospheric Admin	11,393	5,240	6,153	0	10,707	0	2,179	4,591	3,677	260
Department of Defense, total	378,728	10,241	348,727	19,760	1,493	0	895	0	598	0
Department of the Army	31,985	2,962	21,304	7,719	1,493	0	895	0	598	0
Department of the Navy	17,343	486	15,974	883	0	0	0	0	0	0
Department of the Air Force	28,982	4,057	21,157	3,768	0	0	0	0	0	0
Defense agencies	300,418	2,736	290,292	7,390	0	0	0	0	0	0
Department of Education	1,578	0	0	1,578	111,313	0	0	0	1,353	109,960
Department of Energy	106,025	0	70,700	35,325	0	0	0	0	0	0
Dept of Health & Human Svcs, total	8,014	3,392	4,622	0	303,147	773	4,394	1,846	139,773	156,361
Admin on Aging 1/	0	0	0	0	2,860	0	0	0	0	2,860
Admin for Children and Families 1/	0	0	0	0	14,400	0	0	0	0	14,400
Agency for Health Care Policy & Research 2/	0	0	0	0	97,836	0	0	0	97,836	0
Alcohol, Drug Abuse, & Mental Health Admin	1,550	1,070	480	0	58,127	773	1,387	1,595	40,183	14,189
Health Care Financing Admin	0	0	0	0	78,380	0	0	0	0	78,380
Nat'l Institutes of Health	6,464	2,322	4,142	0	15,824	0	0	0	0	15,824
Office of the Secretary	0	0	0	0	5,012	0	3,007	251	1,754	0
Social Security Admin	0	0	0	0	30,708	0	0	0	0	30,708
Dept of Housing & Urban Development	90	0	90	0	7,251	0	6,107	70	450	624
Department of the Interior, total	11,564	2,056	9,508	0	3,759	1,499	0	0	1,210	1,050
Bureau of Land Management	0	0	0	0	109	99	0	0	10	0
Geological Survey	11,264	2,056	9,208	0	150	0	0	0	0	150
Nat'l Park Svc	300	0	300	0	3,500	1,400	0	0	1,200	900
Department of Justice, total	550	200	350	0	11,571	250	450	500	3,800	6,571
Bureau of Prisons 3/	0	0	0	0	1,600	50	50	0	800	700
Office of Justice Programs	550	200	350	0	9,971	200	400	500	3,000	5,871

See explanatory information, if any, and SOURCE at end of table.

Table C-70. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Department of Labor, total	0	0	0	0	24,863	0	23,863	0	0	1,000
Bureau of Labor Statistics	0	0	0	0	7,600	0	7,600	0	0	0
Employment and Training Admin	0	0	0	0	6,500	0	6,500	0	0	0
Occupational Safety & Health Admin	0	0	0	0	3,219	0	3,219	0	0	0
Office of the Secretary	0	0	0	0	4,691	0	3,691	0	0	1,000
Pension Benefit Guaranty Corporation	0	0	0	0	393	0	393	0	0	0
Pension & Welfare Benefit Admin	0	0	0	0	2,460	0	2,460	0	0	0
Department of State	0	0	0	0	431	10	20	100	10	291
Department of Transportation, total	19,193	2,121	13,794	3,278	8,795	0	5,318	0	2,952	525
Coast Guard	1,823	0	1,823	0	0	0	0	0	0	0
Federal Aviation Admin	7,943	0	7,943	0	0	0	0	0	0	0
Federal Highway Admin	5,634	2,121	3,513	0	398	0	398	0	0	0
Federal Railroad Admin	0	0	0	0	4,845	0	4,845	0	0	0
Nat'l Highway Traffic Safety Admin	3,278	0	0	3,278	2,952	0	0	0	2,952	0
Office of the Secretary	0	0	0	0	75	0	75	0	0	0
Research & Special Programs Admin	515	0	515	0	525	0	0	0	0	525
Department of the Treasury, total	8,897	7,562	1,335	0	8,071	0	6,304	0	0	1,767
Internal Revenue Svc	8,897	7,562	1,335	0	5,048	0	3,281	0	0	1,767
Office of Thrift Supervision 4/	0	0	0	0	3,023	0	3,023	0	0	0
Other agencies:										
Advisory Commission on Intergovernmental Relations	0	0	0	0	1,510	0	755	755	0	0
Agency for International Development	2,326	0	2,326	0	17,483	0	6,061	740	812	9,870
Appalachian Regional Commission	0	0	0	0	1,900	0	0	0	0	1,900
Environmental Protection Agency	902	0	902	0	0	0	0	0	0	0
Federal Communications Commission	115	0	115	0	293	0	271	0	0	22
Federal Trade Commission	0	0	0	0	528	0	528	0	0	0
International Trade Commission	0	0	0	0	11,720	0	11,720	0	0	0
Nat'l Aeronautics & Space Admin	48,134	21,248	22,163	4,723	43	0	43	0	0	0
Nat'l Archives & Records Admin	10	10	0	0	0	0	0	0	0	0
Nat'l Science Foundation	10,540	1,747	8,293	500	9,449	980	2,910	597	1,695	3,267
Tennessee Valley Authority	0	0	0	0	558	0	558	0	0	0
US Arms Control & Disarmament Agency	235	75	160	0	1,723	0	0	1,723	0	0

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ Formerly listed as Federal Prison System

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-71. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	649,388	78,609	498,967	71,812	545,740	4,107	149,182	9,909	137,819	244,723
Departments:										
Department of Agriculture, total	8,632	7,689	943	0	85,549	0	78,856	392	6,228	73
Agricultural Cooperative Svc	0	0	0	0	3,097	0	3,097	0	0	0
Agricultural Research Svc	1,048	105	943	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	23,792	0	19,019	0	4,773	0
Economic Research Svc	0	0	0	0	51,920	0	50,944	161	742	73
Forest Svc	5,260	5,260	0	0	6,740	0	5,796	231	713	0
Nat'l Agricultural Statistics Svc	2,324	2,324	0	0	0	0	0	0	0	0
Department of Commerce, total	33,367	10,125	18,262	4,980	10,286	0	3,194	4,006	2,841	245
Bureau of the Census	1,702	1,477	225	0	696	0	380	316	0	0
Nat'l Inst of Standards & Tech	21,758	4,091	12,687	4,980	258	0	258	0	0	0
Nat'l Oceanic & Atmospheric Admin	9,907	4,557	5,350	0	9,332	0	2,556	3,690	2,841	245
Department of Defense, total	359,665	11,062	332,951	15,652	1,270	0	762	0	508	0
Department of the Army	21,165	2,312	15,975	2,878	1,270	0	762	0	508	0
Department of the Navy	21,415	600	19,725	1,090	0	0	0	0	0	0
Department of the Air Force	37,859	5,300	27,637	4,922	0	0	0	0	0	0
Defense agencies	279,226	2,850	269,614	6,762	0	0	0	0	0	0
Department of Education	1,883	0	0	1,883	111,132	0	0	0	1,394	109,738
Department of Energy	105,725	0	76,300	29,425	0	0	0	0	0	0
Dept of Health & Human Svcs, total	8,416	3,580	4,836	0	226,116	811	4,595	1,961	112,377	106,372
Admin on Aging 1/	0	0	0	0	2,860	0	0	0	0	2,860
Admin for Children and Families 1/	0	0	0	0	16,000	0	0	0	0	16,000
Agency for Health Care Policy & Research 2/	0	0	0	0	67,948	0	0	0	67,948	0
Alcohol, Drug Abuse, & Mental Health Admin	1,625	1,140	485	0	61,588	811	1,461	1,700	42,600	15,016
Health Care Financing Admin	0	0	0	0	36,000	0	0	0	0	36,000
Nat'l Institutes of Health	6,791	2,440	4,351	0	16,624	0	0	0	0	16,624
Office of the Secretary	0	0	0	0	5,224	0	3,134	261	1,829	0
Social Security Admin	0	0	0	0	19,872	0	0	0	0	19,872
Dept of Housing & Urban Development	199	0	199	0	10,804	0	9,113	67	1,015	609
Department of the Interior, total	10,192	1,906	8,286	0	4,304	1,686	0	0	1,518	1,100
Bureau of Land Management	0	0	0	0	204	186	0	0	18	0
Geological Survey	9,892	1,906	7,986	0	100	0	0	0	0	100
Nat'l Park Svc	300	0	300	0	4,000	1,500	0	0	1,500	1,000
Department of Justice, total	650	250	400	0	9,766	400	275	400	4,173	4,518
Bureau of Prisons 3/	0	0	0	0	1,600	50	50	0	800	700
Office of Justice Programs	650	250	400	0	8,166	350	225	400	3,373	3,818

See explanatory information, if any, and SOURCE at end of table.

Table C-71. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Department of Labor, total	0	0	0	0	27,395	0	22,395	0	0	5,000
Bureau of Labor Statistics	0	0	0	0	8,400	0	8,400	0	0	0
Employment and Training Admin	0	0	0	0	3,800	0	3,800	0	0	0
Occupational Safety & Health Admin	0	0	0	0	3,219	0	3,219	0	0	0
Office of the Secretary	0	0	0	0	9,081	0	4,081	0	0	5,000
Pension Benefit Guaranty Corporation	0	0	0	0	535	0	535	0	0	0
Pension & Welfare Benefit Admin	0	0	0	0	2,360	0	2,360	0	0	0
Department of State	0	0	0	0	442	10	20	100	10	302
Department of Transportation, total	20,722	7,193	8,865	4,664	7,690	0	3,306	0	4,284	100
Coast Guard	1,970	0	1,970	0	0	0	0	0	0	0
Federal Aviation Admin	6,793	4,661	2,132	0	0	0	0	0	0	0
Federal Highway Admin	6,725	2,532	4,193	0	475	0	475	0	0	0
Federal Railroad Admin	0	0	0	0	2,756	0	2,756	0	0	0
Nat'l Highway Traffic Safety Admin	4,524	0	0	4,524	4,284	0	0	0	4,284	0
Office of the Secretary	0	0	0	0	75	0	75	0	0	0
Research & Special Programs Admin	710	0	570	140	100	0	0	0	0	100
Department of the Treasury, total	8,897	7,562	1,335	0	8,221	0	6,454	0	0	1,767
Internal Revenue Svc	8,897	7,562	1,335	0	5,048	0	3,281	0	0	1,767
Office of Thrift Supervision 4/	0	0	0	0	3,173	0	3,173	0	0	0
Other agencies:										
Advisory Commission on Intergovernmental Relations	0	0	0	0	1,481	0	740	741	0	0
Agency for International Development	2,842	0	2,842	0	14,248	0	2,841	755	1,097	9,555
Appalachian Regional Commission	0	0	0	0	900	0	0	0	0	900
Environmental Protection Agency	919	0	919	0	0	0	0	0	0	0
Federal Communications Commission	115	0	115	0	262	0	262	0	0	0
Federal Trade Commission	0	0	0	0	548	0	548	0	0	0
International Trade Commission	0	0	0	0	12,533	0	12,533	0	0	0
Nat'l Aeronautics & Space Admin	73,190	27,259	32,223	13,708	46	0	46	0	0	0
Nat'l Science Foundation	13,974	1,983	10,491	1,500	11,747	1,200	3,242	487	2,374	4,444
US Arms Control & Disarmament Agency	0	0	0	0	1,000	0	0	1,000	0	0

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ Formerly listed as Federal Prison System

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-72. Federal obligations for development, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Total, all agencies	37,326,775	8,698,789	23,014,069	1,443,679	1,301,002	1,442,897	711,517	508,494	85,784	120,544
Departments:										
Department of Agriculture, total	61,181	58,465	0	0	1,940	0	290	0	11	475
Agricultural Marketing Svc 2/	515	515	0	0	0	0	0	0	0	0
Agricultural Research Svc	40,187	38,206	0	0	1,467	0	195	0	11	308
Animal & Plant Health Inspection Svc	15,736	15,192	0	0	449	0	95	0	0	0
Federal Grain Inspection Svc	75	51	0	0	24	0	0	0	0	0
Forest Svc	4,500	4,500	0	0	0	0	0	0	0	0
Office of International Cooperation & Development	168	1	0	0	0	0	0	0	0	167
Department of Commerce, total	39,895	27,433	4,830	0	6,337	10	1,185	100	0	0
Bureau of the Census	1,852	1,852	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	15,629	10,793	3,509	0	32	10	1,185	100	0	0
Nat'l Oceanic & Atmospheric Admin	22,414	14,788	1,321	0	6,305	0	0	0	0	0
Department of Defense, total	28,416,857	6,753,105	19,736,005	277,224	358,036	559,844	215,195	407,584	477	109,387
Department of the Army	5,221,003	1,688,579	3,322,969	5,708	29,479	96,863	36,762	36,689	34	3,920
Department of the Navy	6,932,000	2,589,399	3,840,805	142,033	207,308	1,245	34,139	56,336	0	60,735
Department of the Air Force	10,107,136	545,222	9,311,052	23,676	5,288	39,154	2,600	180,144	0	0
Defense agencies	5,919,448	1,812,214	3,158,741	105,807	114,696	422,582	141,694	119,437	0	44,277
Test & Evaluation, Deputy Under Secretary Defense	223,720	116,802	101,633	0	1,265	0	0	3,122	443	455
Director, Operational Test and Evaluation	13,550	889	805	0	0	0	0	11,856	0	0
Department of Education	39,351	2,380	2,713	0	14,922	0	19,067	0	269	0
Department of Energy	2,709,470	171,981	645,733	1,163,353	25,137	593,210	19,258	87,340	2,919	539
Dept of Health & Human Svcs, total	1,593,512	379,526	44,938	2,402	808,115	3,039	289,664	1,548	59,954	4,326
Admin on Aging 3/	17,710	519	0	0	347	0	8,248	0	8,596	0
Admin for Children and Families 3/	115,500	1,178	870	0	9,435	0	79,047	0	24,970	0
Agency for Health Care Policy & Research 4/	8,091	3,560	0	0	4,169	0	362	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	537,625	162,713	0	0	303,556	0	51,826	0	19,530	0
Nat'l Institutes of Health	912,496	211,409	44,068	2,402	488,823	3,039	150,023	1,548	6,858	4,326
Office of Asst Secy for Health	377	34	0	0	185	0	158	0	0	0
Social Security Admin	1,713	113	0	0	1,600	0	0	0	0	0
Dept of Housing & Urban Dev	18,421	8,725	8,508	0	26	0	1,162	0	0	0
Department of the Interior, total	39,542	21,595	16,084	0	1,863	0	0	0	0	0
Bureau of Land Management	2,828	1,115	0	0	1,713	0	0	0	0	0
Bureau of Mines	7,120	4,995	2,125	0	0	0	0	0	0	0
Bureau of Reclamation	900	900	0	0	0	0	0	0	0	0
Geological Survey	18,194	4,550	13,494	0	150	0	0	0	0	0
Office of the Secretary	500	35	465	0	0	0	0	0	0	0
US Fish & Wildlife Svc	10,000	10,000	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-72. Federal obligations for development, by agency and performer: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Department of Justice, total	27,800	12,244	5,573	700	599	0	4,511	0	4,173	0
Bureau of Prisons 5/	3,300	450	50	0	0	0	0	0	2,800	0
Drug Enforcement Admin	1,800	200	900	700	0	0	0	0	0	0
Federal Bureau of Investigation	10,810	10,810	0	0	0	0	0	0	0	0
Office of Justice Programs	11,890	784	4,623	0	599	0	4,511	0	1,373	0
Department of Labor, total	19,675	2,069	9,586	0	309	0	3,937	0	3,764	10
Employment and Training Admin	15,500	1,510	8,144	0	0	0	2,596	0	3,250	0
Office of the Secretary	4,005	489	1,342	0	309	0	1,341	0	514	10
Pension Benefit Guaranty Corporation	170	70	100	0	0	0	0	0	0	0
Dept of Transportation, total	265,297	193,514	38,508	0	12,829	0	1,679	11,225	7,542	0
Coast Guard	19,151	13,745	5,406	0	0	0	0	0	0	0
Federal Aviation Admin	196,174	171,942	5,999	0	7,008	0	0	11,225	0	0
Federal Highway Admin	40,821	1,356	25,910	0	4,888	0	1,125	0	7,542	0
Federal Railroad Admin	2,703	1,676	473	0	0	0	554	0	0	0
Office of the Secretary	3,698	2,993	505	0	200	0	0	0	0	0
Research & Spec Programs Admin	1,017	802	215	0	0	0	0	0	0	0
Federal Transit Admin 6/	1,733	1,000	0	0	733	0	0	0	0	0
Department of the Treasury, total	6,699	3,546	3,153	0	0	0	0	0	0	0
Bureau of Engraving and Printing	828	828	0	0	0	0	0	0	0	0
Financial Crimes Enforcement Network	2,278	2,278	0	0	0	0	0	0	0	0
Internal Revenue Svc	357	238	119	0	0	0	0	0	0	0
United States Customs Svc	3,184	150	3,034	0	0	0	0	0	0	0
United States Mint	52	52	0	0	0	0	0	0	0	0
Department of Veterans Affairs	22,800	21,300	0	0	1,500	0	0	0	0	0
Other agencies:										
Agency for International Development	20,376	1,552	268	0	2,605	0	14,630	0	0	1,321
Consumer Product Safety Commission	430	345	85	0	0	0	0	0	0	0
Environmental Protection Agency	79,493	28,085	35,367	0	6,623	0	5,214	0	4,204	0
Library of Congress	7,344	7,344	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	3,909,077	978,453	2,462,718	0	59,314	286,794	114,144	697	2,471	4,486
Nat'l Archives & Records Admin	80	80	0	0	0	0	0	0	0	0
Tennessee Valley Authority	49,475	27,047	0	0	847	0	21,581	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ Formerly listed as Federal Prison System

6/ Name changed from Urban Mass Transit Administration on December 18, 1991

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-73. Federal obligations for development, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Total, all agencies	44,172,381	9,478,073	28,352,824	1,488,234	1,673,261	1,512,906	819,480	539,045	112,302	196,256
Departments:										
Department of Agriculture, total	64,035	61,507	0	0	2,086	0	184	0	10	248
Agricultural Marketing Svc 2/	602	602	0	0	0	0	0	0	0	0
Agricultural Research Svc	41,473	39,519	0	0	1,512	0	184	0	10	248
Animal & Plant Health inspection Svc	16,732	16,188	0	0	544	0	0	0	0	0
Federal Grain Inspection Svc	128	98	0	0	30	0	0	0	0	0
Forest Svc	5,100	5,100	0	0	0	0	0	0	0	0
Department of Commerce, total	90,090	30,310	55,496	0	2,716	10	1,458	100	0	0
Bureau of the Census	2,056	2,056	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	53,354	11,979	39,762	0	45	10	1,458	100	0	0
Nat'l Oceanic & Atmospheric Admin	34,680	16,275	15,734	0	2,671	0	0	0	0	0
Department of Defense, total	34,211,254	7,317,399	24,509,343	281,007	642,382	575,474	270,266	436,259	2,831	176,293
Department of the Army	5,750,493	1,797,852	3,648,406	3,785	34,565	161,187	68,212	26,999	15	9,472
Department of the Navy	8,304,000	2,627,639	5,160,185	141,600	206,299	1,115	37,788	54,738	0	74,636
Department of the Air Force	12,784,057	1,107,365	11,413,951	6,872	3,276	45,985	1,466	202,689	2,453	0
Defense agencies	7,163,888	1,700,519	4,176,364	128,750	397,192	365,987	161,678	141,213	0	92,185
Test & Evaluation, Deputy Under Secretary Defense	195,980	82,930	110,437	0	1,050	1,200	0	0	363	0
Director, Operational Test and Evaluation	12,836	1,094	0	0	0	0	1,122	10,620	0	0
Department of Education	50,052	2,599	2,832	0	21,564	0	22,747	0	310	0
Department of Energy	3,166,389	215,558	994,892	1,197,866	31,043	619,352	16,091	89,401	1,596	590
Dept of Health & Human Svcs, total	1,777,560	428,104	58,015	2,874	868,726	4,263	324,934	2,329	80,767	7,548
Admin on Aging 3/	17,742	551	0	0	1,000	0	8,191	0	8,000	0
Admin for Children and Families 3/	140,900	1,456	1,024	0	10,620	0	84,608	0	43,192	0
Agency for Health Care Policy & Research 4/	8,508	911	0	0	7,597	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	600,110	177,860	5,514	0	334,952	696	56,994	0	21,550	2,544
Nat'l Institutes of Health	1,009,300	247,226	51,477	2,874	513,857	3,567	174,941	2,329	8,025	5,004
Office of Asst Secy for Health	1,000	100	0	0	700	0	200	0	0	0
Dept of Housing & Urban Dev	18,084	10,141	5,309	0	101	0	2,533	0	0	0
Department of the Interior, total	46,086	29,571	13,904	0	2,011	0	600	0	0	0
Bureau of Land Management	2,991	1,180	0	0	1,811	0	0	0	0	0
Bureau of Mines	8,516	7,716	800	0	0	0	0	0	0	0
Bureau of Reclamation	2,500	1,900	0	0	0	0	600	0	0	0
Geological Survey	17,779	5,100	12,479	0	200	0	0	0	0	0
Office of the Secretary	700	75	625	0	0	0	0	0	0	0
US Fish & Wildlife Svc	13,600	13,600	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-73. Federal obligations for development, by agency and performer: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Department of Justice, total	28,809	13,427	5,692	400	900	0	4,615	0	3,775	0
Bureau of Prisons 5/	3,300	550	50	0	0	0	0	0	2,700	0
Drug Enforcement Admin	1,500	200	900	400	0	0	0	0	0	0
Federal Bureau of Investigation	11,427	11,427	0	0	0	0	0	0	0	0
Office of Justice Programs	12,582	1,250	4,742	0	900	0	4,615	0	1,075	0
Department of Labor, total	13,767	1,873	3,722	0	1,072	0	2,150	0	4,950	0
Employment and Training Admin	9,800	882	2,196	0	822	0	1,000	0	4,900	0
Office of the Secretary	3,878	902	1,526	0	250	0	1,150	0	50	0
Pension Benefit Guaranty Corporation	89	89	0	0	0	0	0	0	0	0
Dept of Transportation, total	303,220	199,313	61,254	6,087	14,026	0	2,847	10,218	9,475	0
Coast Guard	21,562	15,475	0	6,087	0	0	0	0	0	0
Federal Aviation Admin	218,526	175,011	26,194	0	6,729	0	399	10,193	0	0
Federal Highway Admin	51,215	1,183	32,414	0	6,797	0	1,346	0	9,475	0
Federal Railroad Admin	4,963	2,326	1,535	0	0	0	1,102	0	0	0
Office of the Secretary	4,345	3,699	621	0	0	0	0	25	0	0
Research & Spec Programs Admin	1,109	619	490	0	0	0	0	0	0	0
Federal Transit Admin 6/	1,500	1,000	0	0	500	0	0	0	0	0
Department of the Treasury, total	6,425	2,776	3,333	0	0	316	0	0	0	0
Bureau of Engraving and Printing	680	680	0	0	0	0	0	0	0	0
Financial Crimes Enforcement Network	1,958	1,642	0	0	0	316	0	0	0	0
Internal Revenue Svc	357	238	119	0	0	0	0	0	0	0
United States Customs Svc	2,830	150	2,680	0	0	0	0	0	0	0
United States Mint	600	66	534	0	0	0	0	0	0	0
Department of Veterans Affairs	23,000	21,250	0	0	1,750	0	0	0	0	0
Other agencies:										
Agency for International Development	26,606	111	914	0	2,817	0	15,721	0	0	7,043
Consumer Product Safety Commission	404	300	104	0	0	0	0	0	0	0
Environmental Protection Agency	76,286	9,017	39,704	0	10,868	0	10,571	0	6,126	0
Library of Congress	8,581	8,581	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	4,196,215	1,083,740	2,598,310	0	70,232	313,491	122,708	735	2,462	4,534
Nat'l Archives & Records Admin	80	80	0	0	0	0	0	0	0	0
Tennessee Valley Authority	65,438	42,416	0	0	967	0	22,055	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ Formerly listed as Federal Prison System

6/ Name changed from Urban Mass Transit Administration on December 18, 1991

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-74. Federal obligations for development, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Total, all agencies	41,855,139	8,802,372	27,144,293	1,464,187	1,511,007	1,318,244	752,727	541,112	132,611	188,586
Departments:										
Department of Agriculture, total	65,348	62,927	0	0	1,927	0	234	0	12	248
Agricultural Marketing Svc 2/	570	570	0	0	0	0	0	0	0	0
Agricultural Research Svc	43,186	41,353	0	0	1,339	0	234	0	12	248
Animal & Plant Health Inspection Svc	16,651	16,107	0	0	544	0	0	0	0	0
Federal Grain Inspection Svc	141	97	0	0	44	0	0	0	0	0
Forest Svc	4,800	4,800	0	0	0	0	0	0	0	0
Department of Commerce, total	88,771	35,648	46,961	0	4,923	10	1,129	100	0	0
Bureau of the Census	2,073	2,073	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	49,418	16,913	31,192	0	74	10	1,129	100	0	0
Nat'l Oceanic & Atmospheric Admin	37,280	16,662	15,769	0	4,849	0	0	0	0	0
Department of Defense, total	31,628,318	6,542,098	23,056,314	292,750	427,266	491,681	211,203	437,709	588	168,709
Department of the Army	4,971,914	1,632,481	3,120,503	7,416	31,166	118,766	29,061	30,074	12	2,435
Department of the Navy	7,664,000	2,508,429	4,653,480	149,044	197,388	1,615	21,882	53,231	0	78,931
Department of the Air Force	11,637,755	771,568	10,593,443	4,668	3,467	50,608	1,800	212,201	0	0
Defense agencies	6,997,994	1,477,395	4,504,328	131,622	191,398	318,685	158,460	130,363	0	85,743
Test & Evaluation, Deputy Under Secretary Defense	287,302	108,678	173,194	0	2,847	2,007	0	0	576	0
Director, Operational Test and Evaluation	12,983	1,143	0	0	0	0	0	11,840	0	0
Health Affairs, Assistant Secretary of Defense for	56,370	42,404	11,366	0	1,000	0	0	0	0	1,600
Department of Education	63,884	4,042	3,000	0	18,526	0	18,005	0	20,311	0
Department of Energy	3,110,512	248,241	1,011,071	1,167,796	33,591	547,940	14,172	86,145	1,102	454
Dept of Health & Human Svcs, total	1,833,903	444,798	59,146	2,921	913,758	4,369	320,363	2,367	78,383	7,798
Admin on Aging 3/	16,742	502	0	0	900	0	7,740	0	7,600	0
Admin for Children and Families 3/	126,200	1,292	937	0	10,701	0	73,611	0	39,659	0
Agency for Health Care Policy & Research 4/	5,908	2,611	0	0	3,044	0	253	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	638,590	188,782	5,876	0	356,926	742	60,589	0	22,964	2,711
Nat'l Institutes of Health	1,044,600	251,338	52,333	2,921	540,917	3,627	177,850	2,367	8,160	5,087
Office of Asst Secy for Health	1,570	150	0	0	1,100	0	320	0	0	0
Social Security Admin	293	123	0	0	170	0	0	0	0	0
Dept of Housing & Urban Dev	23,359	8,639	11,257	0	101	0	3,362	0	0	0
Department of the Interior, total	35,154	23,056	8,680	0	3,418	0	0	0	0	0
Bureau of Land Management	5,231	2,063	0	0	3,168	0	0	0	0	0
Bureau of Mines	4,263	4,263	0	0	0	0	0	0	0	0
Bureau of Reclamation	1,000	1,000	0	0	0	0	0	0	0	0
Geological Survey	11,560	3,350	7,960	0	250	0	0	0	0	0
Office of the Secretary	800	80	720	0	0	0	0	0	0	0
US Fish & Wildlife Svc	12,300	12,300	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-74. Federal obligations for development, by agency and performer: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Department of Justice, total	39,772	26,548	4,774	400	1,000	0	2,850	0	4,200	0
Bureau of Prisons 5/	3,600	550	50	0	0	0	0	0	3,000	0
Drug Enforcement Admin	1,500	200	900	400	0	0	0	0	0	0
Federal Bureau of Investigation	24,298	24,298	0	0	0	0	0	0	0	0
Office of Justice Programs	10,374	1,500	3,824	0	1,000	0	2,850	0	1,200	0
Department of Labor, total	16,538	1,837	5,699	0	1,072	0	1,480	0	6,450	0
Employment and Training Admin	12,800	900	4,473	0	822	0	205	0	6,400	0
Office of the Secretary	3,738	937	1,226	0	250	0	1,275	0	50	0
Dept of Transportation, total	282,982	176,027	67,661	320	13,189	0	1,206	14,035	10,544	0
Coast Guard	22,125	15,930	6,195	0	0	0	0	0	0	0
Federal Aviation Admin	189,126	151,268	22,306	0	1,357	0	200	13,995	0	0
Federal Highway Admin	57,293	2,137	36,880	0	7,732	0	0	0	10,544	0
Federal Railroad Admin	4,342	1,997	1,339	0	0	0	1,006	0	0	0
Office of the Secretary	3,863	3,195	628	0	0	0	0	40	0	0
Research & Spec Programs Admin	1,133	500	313	320	0	0	0	0	0	0
Federal Transit Admin 6/	5,100	1,000	0	0	4,100	0	0	0	0	0
Department of the Treasury, total	11,343	2,252	8,762	0	0	329	0	0	0	0
Financial Crimes Enforcement Network	2,127	1,798	0	0	0	329	0	0	0	0
Internal Revenue Svc	357	238	119	0	0	0	0	0	0	0
United States Customs Svc	8,257	150	8,107	0	0	0	0	0	0	0
United States Mint	602	66	536	0	0	0	0	0	0	0
Department of Veterans Affairs	23,000	21,250	0	0	1,750	0	0	0	0	0
Other agencies:										
Agency for International Development	27,151	114	1,993	0	3,060	0	14,989	0	0	6,995
Consumer Product Safety Commission	413	315	98	0	0	0	0	0	0	0
Environmental Protection Agency	84,452	11,365	41,442	0	11,955	0	11,053	0	8,637	0
Library of Congress	8,506	8,506	0	0	0	0	0	0	0	0
Nat'l Aeronautics & Space Admin	4,465,492	1,161,028	2,817,435	0	75,011	273,915	130,581	756	2,384	4,382
Nat'l Archives & Records Admin	80	80	0	0	0	0	0	0	0	0
Tennessee Valley Authority	46,161	23,601	0	0	460	0	22,100	0	0	0

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ Formerly listed as Federal Prison System

6/ Name changed from Urban Mass Transit Administration on December 18, 1991

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-75. Federal funds for R&D plant, by agency: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Agency and subdivision	Obligations			Outlays		
	1991	Estimates		1991	Estimates	
		1992	1993		1992	1993
Total, all agencies	3,695,361	5,217,739	5,290,745	3,161,958	4,528,630	4,945,366
Departments:						
Department of Agriculture, total	144,620	175,237	103,755	80,067	102,547	135,018
Agricultural Research Service	64,710	88,636	98,755	49,445	68,321	88,143
Animal & Plant Health Inspection Service	0	2,500	0	0	2,500	0
Cooperative State Research Service	61,510	80,501	0	15,522	24,526	42,175
Forest Service	18,400	3,600	5,000	15,100	7,200	4,700
Department of Commerce, total	15,749	24,492	25,463	15,529	20,694	21,773
National Institute of Standards & Technology	8,471	14,909	22,663	8,251	16,311	17,487
National Oceanic & Atmospheric Administration	7,278	9,583	2,800	7,278	4,383	4,286
Department of Defense, total	1,253,174	1,940,516	2,463,914	1,035,874	1,769,156	2,192,914
Department of the Army	91,000	29,000	21,000	65,000	31,000	23,000
Department of the Navy	54,000	136,000	23,000	87,000	110,000	65,000
Department of the Air Force	979,729	1,642,271	2,251,350	820,374	1,492,001	1,960,000
Defense agencies	128,445	133,245	168,564	63,500	136,155	144,914
Department of Education	4,200	2,100	2,100	2,626	4,227	4,629
Department of Energy	1,220,120	1,588,739	1,664,699	1,099,835	1,538,869	1,448,779
Department of Health and Human Services, total	86,284	308,417	100,424	194,840	139,627	112,406
Food & Drug Administration	18,435	22,542	26,906	18,435	22,542	26,906
Health Resources and Services Administration	0	800	1,000	0	800	1,000
National Institutes of Health	67,844	284,990	72,518	176,400	116,200	84,500
Social Security Administration	5	85	0	5	85	0
Department of the Interior, total	22,191	19,014	7,852	20,697	19,138	7,713
Bureau of Mines	2,066	589	594	1,466	1,089	592
Geological Survey	3,275	4,325	3,758	2,908	4,616	3,773
Minerals Management Service	250	1,000	1,000	223	733	948
United States Fish and Wildlife Service	16,600	13,100	2,500	16,100	12,700	2,400
Department of Transportation, total	18,383	24,728	24,065	18,414	18,319	18,396
Coast Guard	400	400	400	400	400	400
Federal Aviation Administration	16,294	23,243	23,400	16,494	16,847	17,836
Federal Railroad Administration	1,689	1,085	265	1,520	1,072	160
Department of the Treasury, total	125	125	152	125	125	152
Office of Protective Research	25	25	27	25	25	27
United States Customs Service	100	100	125	100	100	125
Department of Veterans Affairs	3,400	11,700	1,900	8,200	5,500	5,500
Other agencies:						
Agency for International Development	15,093	14,455	14,971	13,723	13,208	16,885
General Services Administration	22,624	6,451	0	3,574	14,004	20,497
National Aeronautics and Space Administration	723,573	988,863	723,412	603,794	778,196	808,454
National Science Foundation	159,557	100,562	151,368	56,500	98,200	145,400
Smithsonian Institution	1,491	9,200	6,600	4,468	3,680	6,780
Tennessee Valley Authority	4,777	3,140	70	3,892	3,140	70

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-76. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	3,695,361	461,058	1,889,195	279,638	253,283	624,578	154,613	19,660	552	12,784
Departments:										
Department of Agriculture, total	144,620	85,401	727	0	58,340	0	0	0	152	0
Agricultural Research Svc	64,710	64,710	0	0	0	0	0	0	0	0
Cooperative State Research Svc	61,510	2,291	727	0	58,340	0	0	0	152	0
Forest Svc	18,400	18,400	0	0	0	0	0	0	0	0
Department of Commerce, total	15,749	5,588	9,864	0	297	0	0	0	0	0
Nat'l Inst of Standards & Tech	8,471	5,338	2,836	0	297	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	7,278	250	7,028	0	0	0	0	0	0	0
Department of Defense, total	1,253,174	224,729	980,752	1,915	45,280	498	0	0	0	0
Department of the Army	91,000	91,000	0	0	0	0	0	0	0	0
Department of the Navy	54,000	54,000	0	0	0	0	0	0	0	0
Department of the Air Force	979,729	32,784	945,632	915	0	398	0	0	0	0
Defense agencies	128,445	46,945	35,120	1,000	45,280	100	0	0	0	0
Department of Education	4,200	36	0	0	4,164	0	0	0	0	0
Department of Energy	1,220,120	16,150	238,880	277,723	41,256	485,820	140,631	19,660	0	0
Dept of Health & Human Svcs, total	86,284	75,440	199	0	9,915	0	730	0	0	0
Food & Drug Admin	18,435	18,435	0	0	0	0	0	0	0	0
Nat'l Institutes of Health	67,844	57,005	194	0	9,915	0	730	0	0	0
Social Security Admin	5	0	5	0	0	0	0	0	0	0
Department of the Interior, total	22,191	16,943	5,248	0	0	0	0	0	0	0
Bureau of Mines	2,066	93	1,973	0	0	0	0	0	0	0
Geological Survey	3,275	0	3,275	0	0	0	0	0	0	0
Minerals Management Svc	250	250	0	0	0	0	0	0	0	0
US Fish & Wildlife Svc	16,600	16,600	0	0	0	0	0	0	0	0
Department of Transportation, total	18,383	17,983	0	0	0	0	0	0	400	0
Coast Guard	400	0	0	0	0	0	0	0	400	0
Federal Aviation Admin	16,294	16,294	0	0	0	0	0	0	0	0
Federal Railroad Admin	1,689	1,689	0	0	0	0	0	0	0	0
Department of the Treasury, total	125	125	0	0	0	0	0	0	0	0
Office of Protective Research	25	25	0	0	0	0	0	0	0	0
United States Customs Svc	100	100	0	0	0	0	0	0	0	0
Department of Veterans Affairs	3,400	3,400	0	0	0	0	0	0	0	0
Other agencies:										
Agency for International Development	15,093	813	1,400	0	0	0	9,252	0	0	3,628
General Services Admin	22,624	0	0	0	22,624	0	0	0	0	0
Nat'l Aeronautics & Space Admin	723,573	7,186	648,733	0	754	57,744	0	0	0	9,156
Nat'l Science Foundation	159,557	996	3,392	0	70,653	80,516	4,000	0	0	0
Smithsonian Institution	1,491	1,491	0	0	0	0	0	0	0	0
Tennessee Valley Authority	4,777	4,777	0	0	0	0	0	0	0	0

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-77. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Total, all agencies	5,217,739	777,533	2,803,503	270,852	270,624	668,818	394,912	27,230	400	3,867
Departments:										
Department of Agriculture, total	175,237	97,301	1,407	0	76,529	0	0	0	0	0
Agricultural Research Svc	88,636	88,636	0	0	0	0	0	0	0	0
Animal & Plant Health Inspection Svc	2,500	2,500	0	0	0	0	0	0	0	0
Cooperative State Research Svc	80,501	2,565	1,407	0	76,529	0	0	0	0	0
Forest Svc	3,600	3,600	0	0	0	0	0	0	0	0
Department of Commerce, total	24,492	9,362	14,833	0	297	0	0	0	0	0
Nat'l Inst of Standards & Tech	14,909	8,862	5,750	0	297	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	9,583	500	9,083	0	0	0	0	0	0	0
Department of Defense, total	1,940,516	263,075	1,611,858	0	64,655	928	0	0	0	0
Department of the Army	29,000	29,000	0	0	0	0	0	0	0	0
Department of the Navy	136,000	136,000	0	0	0	0	0	0	0	0
Department of the Air Force	1,642,271	70,985	1,570,958	0	0	328	0	0	0	0
Defense agencies	133,245	27,090	40,900	0	64,655	600	0	0	0	0
Department of Education	2,100	1	0	0	2,099	0	0	0	0	0
Department of Energy	1,588,739	25,313	269,276	270,852	46,931	572,440	376,697	27,230	0	0
Dept of Health & Human Svcs, total	308,417	308,332	85	0	0	0	0	0	0	0
Food & Drug Admin	22,542	22,542	0	0	0	0	0	0	0	0
Health Resources and Svcs Admin	800	800	0	0	0	0	0	0	0	0
Nat'l Institutes of Health	284,990	284,990	0	0	0	0	0	0	0	0
Social Security Admin	85	0	85	0	0	0	0	0	0	0
Department of the Interior, total	19,014	14,100	4,914	0	0	0	0	0	0	0
Bureau of Mines	589	0	589	0	0	0	0	0	0	0
Geological Survey	4,325	0	4,325	0	0	0	0	0	0	0
Minerals Management Svc	1,000	1,000	0	0	0	0	0	0	0	0
US Fish & Wildlife Svc	13,100	13,100	0	0	0	0	0	0	0	0
Department of Transportation, total	24,728	24,328	0	0	0	0	0	0	400	0
Coast Guard	400	0	0	0	0	0	0	0	400	0
Federal Aviation Admin	23,243	23,243	0	0	0	0	0	0	0	0
Federal Railroad Admin	1,085	1,085	0	0	0	0	0	0	0	0
Department of the Treasury, total	125	125	0	0	0	0	0	0	0	0
Office of Protective Research	25	25	0	0	0	0	0	0	0	0
United States Customs Svc	100	100	0	0	0	0	0	0	0	0
Department of Veterans Affairs	11,700	11,700	0	0	0	0	0	0	0	0
Other agencies:										
Agency for International Development	14,455	609	1,184	0	0	2,580	6,215	0	0	3,867
General Services Admin	6,451	0	0	0	6,451	0	0	0	0	0
Nat'l Aeronautics & Space Admin	988,863	9,947	897,746	0	0	81,170	0	0	0	0
Nat'l Science Foundation	100,562	1,000	2,200	0	73,662	11,700	12,000	0	0	0
Smithsonian Institution	9,200	9,200	0	0	0	0	0	0	0	0
Tennessee Valley Authority	3,140	3,140	0	0	0	0	0	0	0	0

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-78. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	5,290,745	457,652	3,052,785	235,530	225,758	696,815	557,412	28,275	400	36,118
Departments:										
Department of Agriculture, total	103,755	103,755	0	0	0	0	0	0	0	0
Agricultural Research Svc	98,755	98,755	0	0	0	0	0	0	0	0
Forest Svc	5,000	5,000	0	0	0	0	0	0	0	0
Department of Commerce, total	25,463	5,986	19,180	0	297	0	0	0	0	0
Nat'l Inst of Standards & Tech	22,663	5,906	16,380	0	297	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	2,800	0	2,800	0	0	0	0	0	0	0
Department of Defense, total	2,463,914	173,160	2,209,890	0	80,214	650	0	0	0	0
Department of the Army	21,000	21,000	0	0	0	0	0	0	0	0
Department of the Navy	23,000	23,000	0	0	0	0	0	0	0	0
Department of the Air Force	2,251,350	97,210	2,154,140	0	0	0	0	0	0	0
Defense agencies	168,564	31,950	55,750	0	80,214	650	0	0	0	0
Department of Education	2,100	1	0	0	2,099	0	0	0	0	0
Department of Energy	1,664,699	29,948	189,268	235,530	28,580	619,406	533,672	28,275	0	0
Dept of Health & Human Svcs, total	100,424	100,424	0	0	0	0	0	0	0	0
Food & Drug Admin	26,906	26,906	0	0	0	0	0	0	0	0
Health Resources and Svcs Admin	1,000	1,000	0	0	0	0	0	0	0	0
Nat'l Institutes of Health	72,518	72,518	0	0	0	0	0	0	0	0
Department of the Interior, total	7,852	3,500	4,352	0	0	0	0	0	0	0
Bureau of Mines	594	0	594	0	0	0	0	0	0	0
Geological Survey	3,758	0	3,758	0	0	0	0	0	0	0
Minerals Management Svc	1,000	1,000	0	0	0	0	0	0	0	0
US Fish & Wildlife Svc	2,500	2,500	0	0	0	0	0	0	0	0
Department of Transportation, total	24,065	23,665	0	0	0	0	0	0	400	0
Coast Guard	400	0	0	0	0	0	0	0	400	0
Federal Aviation Admin	23,400	23,400	0	0	0	0	0	0	0	0
Federal Railroad Admin	265	265	0	0	0	0	0	0	0	0
Department of the Treasury, total	152	152	0	0	0	0	0	0	0	0
Office of Protective Research	27	27	0	0	0	0	0	0	0	0
United States Customs Svc	125	125	0	0	0	0	0	0	0	0
Department of Veterans Affairs	1,900	1,900	0	0	0	0	0	0	0	0
Other agencies:										
Agency for International Development	14,971	534	1,090	0	0	2,289	6,740	0	0	4,318
Nat'l Aeronautics & Space Admin	723,412	6,957	627,885	0	0	56,770	0	0	0	31,800
Nat'l Science Foundation	151,368	1,000	1,100	0	114,568	17,700	17,000	0	0	0
Smithsonian Institution	6,600	6,600	0	0	0	0	0	0	0	0
Tennessee Valley Authority	70	70	0	0	0	0	0	0	0	0

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-79. Federal obligations for research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Field of science and engineering	1991	Estimates	
		1992	1993
Total, all fields	8,533,195	9,242,145	9,895,511
Life sciences, total	4,967,297	5,253,938	5,584,560
Biological (excluding environmental)	2,605,185	2,741,231	2,940,222
Environmental biology	149,317	164,659	174,398
Agricultural	152,934	171,472	175,241
Medical	1,929,661	2,036,764	2,145,775
Life sciences, n.e.c	130,200	139,812	148,924
Psychology, total	256,144	273,383	290,878
Biological aspects	86,055	93,679	103,550
Social aspects	79,442	83,999	88,315
Psychological sciences, n.e.c.	90,647	95,705	99,013
Physical sciences, total	1,070,744	1,180,539	1,213,292
Astronomy	104,389	122,026	132,450
Chemistry	339,576	370,314	400,302
Physics	590,911	633,031	632,532
Physical sciences, n.e.c.	35,868	55,168	48,008
Environmental sciences, total	558,617	619,841	711,055
Atmospheric	147,110	189,380	225,751
Geological	176,658	187,780	209,409
Oceanography	135,524	130,572	153,675
Environmental sciences, n.e.c.	99,325	112,009	122,220
Mathematics & computer sciences, total	398,710	505,082	550,076
Mathematics	121,910	131,218	140,088
Computer sciences	251,720	346,369	381,803
Mathematics & computer sciences, n.e.c.	25,080	27,495	28,185
Engineering, total	828,843	924,145	1,048,285
Aeronautical	58,261	61,729	69,231
Astronautical	21,888	25,189	26,542
Chemical	75,554	70,124	77,318
Civil	48,139	47,675	55,802
Electrical	142,787	166,027	182,458
Mechanical	98,472	117,177	132,548
Metallurgy & materials	213,765	196,103	208,212
Engineering, n.e.c.	169,977	240,121	296,174
Social sciences, total	213,691	218,708	211,750
Anthropology	8,860	9,179	10,654
Economics	50,900	51,215	48,588
Political science	5,980	6,438	7,241
Sociology	92,667	94,707	84,981
Social sciences, n.e.c.	55,484	57,169	60,286
Other sciences, n.e.c.	239,149	266,509	285,615

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal years 1991, 1992, and 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-90. Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	8,533,195	4,967,297	256,144	1,070,744	558,617	398,710	828,843	213,691	239,149
Departments:									
Department of Agriculture, total	383,896	296,684	0	19,264	3,035	1,776	21,968	41,169	0
Agricultural Cooperative Svc	2	0	0	0	0	0	0	2	0
Agricultural Marketing Svc 1/	225	225	0	0	0	0	0	0	0
Agricultural Research Svc	19,491	12,599	0	1,506	1,196	1,011	3,179	0	0
Cooperative State Research Svc	344,586	269,612	0	17,758	816	0	18,759	37,611	0
Economic Research Svc	1,758	0	0	0	0	0	0	1,758	0
Federal Grain Inspection Svc	273	273	0	0	0	0	0	0	0
Forest Svc	16,469	13,146	0	0	1,023	502	0	1,798	0
Human Nutrition Information Svc	479	479	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	263	0	0	0	0	263	0	0	0
Office of International Cooperation & Development	350	350	0	0	0	0	0	0	0
Department of Defense, total	793,816	58,872	21,654	97,494	111,153	181,551	318,349	913	3,830
Department of the Army	87,399	16,438	3,898	12,895	5,615	10,432	37,703	90	328
Department of the Navy	253,711	20,487	13,249	39,828	75,831	24,852	79,114	0	350
Department of the Air Force	135,889	14,605	874	27,537	13,190	15,171	64,512	0	0
Defense agencies	316,817	7,342	3,633	17,234	16,517	131,096	137,020	823	3,152
Department of Energy	595,528	121,238	0	304,696	46,737	20,155	98,127	0	4,575
Dept of Health & Human Svcs, total	4,850,036	4,213,108	230,381	88,073	0	6,842	39,798	135,970	135,864
Admin on Aging 2/	882	0	0	0	0	0	0	882	0
Admin for Children and Families 2/	2,265	0	0	0	0	0	0	2,265	0
Agency for Health Care Policy & Research 3/	48,392	0	0	0	0	0	0	48,392	0
Alcohol, Drug Abuse, & Mental Health Admin	555,429	340,437	147,866	2,162	0	1,321	569	46,194	16,880
Centers for Disease Control	33,604	33,604	0	0	0	0	0	0	0
Food & Drug Admin	14,690	14,690	0	0	0	0	0	0	0
Health Care Financing Admin	10,700	0	0	0	0	0	0	10,700	0
Health Resources and Svcs Admin	5,381	5,381	0	0	0	0	0	0	0
Nat'l Institutes of Health	4,173,441	3,818,996	82,515	85,911	0	5,521	39,229	22,285	118,984
Office of the Secretary	3,783	0	0	0	0	0	0	3,783	0
Social Security Admin	1,469	0	0	0	0	0	0	1,469	0
Other agencies:									
Nat'l Aeronautics & Space Admin	474,414	34,765	2,543	165,442	114,946	25,007	113,810	126	17,775
Nat'l Science Foundation	1,435,505	242,630	1,566	395,775	282,746	163,379	236,791	35,513	77,105

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-81. Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	9,242,145	5,253,938	273,383	1,180,539	619,841	505,082	924,145	218,708	266,509
Departments:									
Department of Agriculture, total	422,289	329,301	0	20,910	2,970	1,631	24,017	43,460	0
Agricultural Cooperative Svc	220	0	0	0	0	0	0	220	0
Agricultural Research Svc	20,095	12,992	0	1,552	1,233	1,009	3,309	0	0
Cooperative State Research Svc	384,602	303,708	0	19,358	849	0	20,708	39,979	0
Economic Research Svc	1,700	0	0	0	0	0	0	1,700	0
Federal Grain Inspection Svc	270	270	0	0	0	0	0	0	0
Forest Svc	14,300	11,414	0	0	888	437	0	1,561	0
Human Nutrition Information Svc	630	630	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	185	0	0	0	0	185	0	0	0
Office of International Cooperation & Development	287	287	0	0	0	0	0	0	0
Department of Defense, total	956,077	77,537	23,200	123,149	119,548	271,115	338,521	65	2,942
Department of the Army	86,606	15,570	3,828	13,487	8,193	11,708	33,179	65	576
Department of the Navy	260,602	20,312	13,287	41,260	79,411	24,311	81,655	0	366
Department of the Air Force	126,048	13,168	885	27,336	12,285	14,325	58,049	0	0
Defense agencies	482,821	28,487	5,200	41,066	19,659	220,771	165,638	0	2,000
Department of Energy	608,921	111,191	0	295,217	47,109	17,181	128,041	0	10,182
Dept of Health & Human Svcs, total	5,119,118	4,432,727	245,450	113,799	0	7,249	41,890	136,004	141,999
Admin on Aging 1/	1,400	0	0	0	0	0	0	1,400	0
Admin for Children and Families 1/	2,080	0	0	0	0	0	0	2,080	0
Agency for Health Care Policy & Research 2/	47,670	0	0	0	0	0	0	47,670	0
Alcohol, Drug Abuse, & Mental Health Admin	592,223	363,479	158,665	2,283	0	1,457	628	48,831	16,880
Centers for Disease Control	33,604	33,604	0	0	0	0	0	0	0
Food & Drug Admin	16,185	16,185	0	0	0	0	0	0	0
Health Care Financing Admin	10,496	0	0	0	0	0	0	10,496	0
Health Resources and Svcs Admin	5,231	5,231	0	0	0	0	0	0	0
Nat'l Institutes of Health	4,408,143	4,014,228	86,785	111,516	0	5,792	41,262	23,441	125,119
Office of the Secretary	1,038	0	0	0	0	0	0	1,038	0
Social Security Admin	1,048	0	0	0	0	0	0	1,048	0
Other agencies:									
Nat'l Aeronautics & Space Admin	561,768	41,164	3,011	195,896	136,131	29,610	134,760	150	21,046
Nat'l Science Foundation	1,573,972	262,018	1,722	431,568	314,083	178,296	256,916	39,029	90,340

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-82. Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	9,895,511	5,584,560	290,878	1,213,292	711,055	550,076	1,048,285	211,750	285,615
Departments:									
Department of Agriculture, total	413,910	334,344	0	18,322	3,054	1,675	20,522	35,993	0
Agricultural Research Svc	20,981	13,563	0	1,622	1,287	1,035	3,474	0	0
Cooperative State Research Svc	375,348	308,092	0	16,700	842	0	17,048	32,666	0
Economic Research Svc	1,700	0	0	0	0	0	0	1,700	0
Federal Grain Inspection Svc	356	356	0	0	0	0	0	0	0
Forest Svc	14,900	11,893	0	0	925	455	0	1,627	0
Human Nutrition Information Svc	200	200	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	185	0	0	0	0	185	0	0	0
Office of International Cooperation & Development	240	240	0	0	0	0	0	0	0
Department of Defense, total	1,131,144	140,434	26,917	115,287	129,834	273,349	443,988	67	1,268
Department of the Army	88,732	15,448	4,677	14,084	6,295	11,573	35,745	67	843
Department of the Navy	313,298	23,565	15,996	49,078	96,695	30,489	97,050	0	425
Department of the Air Force	142,183	15,007	1,157	27,993	13,580	15,442	69,004	0	0
Defense agencies	532,952	32,435	5,087	24,132	13,264	215,845	242,189	0	0
Health Affairs, Assistant Secretary of Defense for	53,979	53,979	0	0	0	0	0	0	0
Department of Energy	542,637	72,763	0	295,225	64,940	18,823	87,104	0	3,782
Dept of Health & Human Svcs, total	5,370,269	4,686,664	258,463	97,629	0	7,659	44,066	127,291	148,497
Admin on Aging 1/	1,200	0	0	0	0	0	0	1,200	0
Admin for Children and Families 1/	2,099	0	0	0	0	0	0	2,099	0
Agency for Health Care Policy & Research 2/	35,339	0	0	0	0	0	0	35,339	0
Alcohol, Drug Abuse, & Mental Health Admin	622,982	382,979	167,178	2,416	0	1,554	669	51,306	16,880
Centers for Disease Control	33,604	33,604	0	0	0	0	0	0	0
Food & Drug Admin	16,842	16,842	0	0	0	0	0	0	0
Health Care Financing Admin	10,584	0	0	0	0	0	0	10,584	0
Health Resources and Svcs Admin	5,231	5,231	0	0	0	0	0	0	0
Nat'l Institutes of Health	4,640,283	4,248,008	91,285	95,213	0	6,105	43,397	24,658	131,617
Office of the Secretary	1,500	0	0	0	0	0	0	1,500	0
Social Security Admin	605	0	0	0	0	0	0	605	0
Other agencies:									
Nat'l Aeronautics & Space Admin	599,989	43,965	3,216	209,224	145,393	31,625	143,928	160	22,478
Nat'l Science Foundation	1,837,562	306,390	2,282	477,605	367,834	216,945	308,677	48,239	109,590

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-83. Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	256,144	86,055	79,442	90,647	4,967,297	2,605,185	149,317	152,934	1,929,661	130,200
Departments:										
Department of Agriculture, total	0	0	0	0	296,684	78,982	62,739	145,211	9,752	0
Agricultural Marketing Svc 1/	0	0	0	0	225	0	0	225	0	0
Agricultural Research Svc	0	0	0	0	12,599	4,802	506	7,198	93	0
Cooperative State Research Svc	0	0	0	0	269,612	65,079	58,188	136,686	9,659	0
Federal Grain Inspection Svc	0	0	0	0	273	0	0	273	0	0
Forest Svc	0	0	0	0	13,146	9,101	4,045	0	0	0
Human Nutrition Information Svc	0	0	0	0	479	0	0	479	0	0
Office of International Cooperation & Development	0	0	0	0	350	0	0	350	0	0
Department of Defense, total	21,654	5,222	12,759	3,673	58,872	28,388	8,930	0	19,900	1,654
Department of the Army	3,898	88	3,741	69	16,438	2,598	174	0	13,666	0
Department of the Navy	13,249	5,134	6,511	1,604	20,487	7,289	6,989	0	6,209	0
Department of the Air Force	874	0	874	0	14,605	12,857	69	0	25	1,654
Defense agencies	3,633	0	1,633	2,000	7,342	5,644	1,698	0	0	0
Department of Energy	0	0	0	0	121,238	46,305	288	228	72,598	1,819
Dept of Health & Human Svcs, total	230,381	80,385	65,701	84,295	4,213,108	2,265,173	804	7,003	1,821,766	118,362
Alcohol, Drug Abuse, & Mental Health Admin	147,866	80,385	65,701	1,780	340,437	209,036	539	1,614	110,092	19,156
Centers for Disease Control	0	0	0	0	33,604	0	0	0	33,604	0
Food & Drug Admin	0	0	0	0	14,690	7,561	0	5,389	0	1,740
Health Resources and Svcs Admin	0	0	0	0	5,381	0	0	0	5,381	0
Nat'l Institutes of Health	82,515	0	0	82,515	3,818,996	2,048,576	265	0	1,672,689	97,466
Other agencies:										
Nat'l Aeronautics & Space Admin	2,543	71	603	1,869	34,785	19,627	1,913	492	5,645	7,088
Nat'l Science Foundation	1,566	377	379	810	242,030	166,710	74,643	0	0	1,277

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-84. Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	273,383	93,679	83,999	95,705	5,253,938	2,741,231	164,659	171,472	2,036,764	139,812
Departments:										
Department of Agriculture, total	0	0	0	0	329,301	90,089	65,973	162,939	10,300	0
Agricultural Research Svc	0	0	0	0	12,992	4,952	523	7,421	96	0
Cooperative State Research Svc	0	0	0	0	303,708	77,235	61,938	154,331	10,204	0
Federal Grain Inspection Svc	0	0	0	0	270	0	0	270	0	0
Forest Svc	0	0	0	0	11,414	7,902	3,512	0	0	0
Human Nutrition Information Svc	0	0	0	0	630	0	0	630	0	0
Office of International Cooperation & Development	0	0	0	0	287	0	0	287	0	0
Department of Defense, total	23,200	6,525	12,764	3,911	77,537	29,803	14,947	0	31,112	1,675
Department of the Army	3,828	0	3,520	308	15,570	2,585	47	0	12,938	0
Department of the Navy	13,287	5,136	6,548	1,603	20,312	7,098	6,989	0	6,225	0
Department of the Air Force	885	0	885	0	13,168	11,397	70	0	26	1,675
Defense agencies	5,200	1,389	1,811	2,000	28,487	8,723	7,841	0	11,923	0
Department of Energy	0	0	0	0	111,191	56,252	279	225	52,061	2,374
Dept of Health & Human Svcs, total	245,450	86,647	70,107	88,696	4,432,727	2,362,542	826	7,726	1,936,607	125,026
Alcohol, Drug Abuse, & Mental Health Admin	158,665	86,647	70,107	1,911	363,479	220,850	539	1,614	119,732	20,744
Centers for Disease Control	0	0	0	0	33,604	0	0	0	33,604	0
Food & Drug Admin	0	0	0	0	16,185	8,279	0	6,112	0	1,794
Health Resources and Svcs Admin	0	0	0	0	5,231	0	0	0	5,231	0
Nat'l Institutes of Health	86,785	0	0	86,785	4,014,228	2,133,413	287	0	1,778,040	102,488
Other agencies:										
Nat'l Aeronautics & Space Admin	3,011	84	714	2,213	41,164	23,239	2,265	582	6,684	8,394
Nat'l Science Foundation	1,722	423	414	885	262,018	179,306	80,369	0	0	2,343

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-85. Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	290,878	103,550	88,315	99,013	5,584,560	2,940,222	174,398	175,241	2,145,775	148,924
Departments:										
Department of Agriculture, total	0	0	0	0	334,344	105,789	57,741	166,403	4,411	0
Agricultural Research Svc	0	0	0	0	13,563	5,170	546	7,748	99	0
Cooperative State Research Svc	0	0	0	0	308,092	92,385	53,536	157,859	4,312	0
Federal Grain Inspection Svc	0	0	0	0	356	0	0	356	0	0
Forest Svc	0	0	0	0	11,893	8,234	3,659	0	0	0
Human Nutrition Information Svc	0	0	0	0	200	0	0	200	0	0
Office of International Cooperation & Development	0	0	0	0	240	0	0	240	0	0
Department of Defense, total	26,917	10,981	13,606	2,330	140,434	32,064	18,672	0	87,510	2,188
Department of the Army	4,677	0	4,284	393	15,448	2,747	49	0	12,652	0
Department of the Navy	15,996	6,200	7,859	1,937	23,565	9,203	8,440	0	5,922	0
Department of the Air Force	1,157	0	1,157	0	15,007	12,694	91	0	34	2,188
Defense agencies	5,087	4,781	306	0	32,435	7,420	10,092	0	14,923	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	53,979	0	0	0	53,979	0
Department of Energy	0	0	0	0	72,763	59,098	299	240	9,743	3,383
Dept of Health & Human Svcs, total	258,463	91,712	73,463	93,288	4,686,664	2,509,366	841	7,975	2,036,972	131,510
Alcohol, Drug Abuse, & Mental Health Admin	167,178	91,712	73,463	2,003	382,979	231,844	539	1,614	127,125	21,857
Centers for Disease Control	0	0	0	0	33,604	0	0	0	33,604	0
Food & Drug Admin	0	0	0	0	16,842	8,615	0	6,361	0	1,866
Health Resources and Svcs Admin	0	0	0	0	5,231	0	0	0	5,231	0
Nat'l Institutes of Health	91,285	0	0	91,285	4,248,008	2,268,907	302	0	1,871,012	107,787
Other agencies:										
Nat'l Aeronautics & Space Admin	3,216	90	763	2,363	43,965	24,821	2,419	623	7,139	8,963
Nat'l Science Foundation	2,282	767	483	1,032	306,390	209,084	94,426	0	0	2,880

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-86. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,070,744	104,389	339,576	590,911	35,868	558,617	147,110	176,658	135,524	99,325
Departments:										
Department of Agriculture, total	19,264	0	18,575	689	0	3,035	2,279	756	0	0
Agricultural Research Svc	1,506	0	817	689	0	1,196	1,010	186	0	0
Cooperative State Research Svc	17,758	0	17,758	0	0	816	816	0	0	0
Forest Svc	0	0	0	0	0	1,023	453	570	0	0
Department of Defense, total	97,494	0	41,451	53,083	2,960	111,153	15,449	38,372	56,342	990
Department of the Army	12,895	0	6,817	6,064	14	5,615	3,166	1,459	0	990
Department of the Navy	39,828	0	15,813	23,792	223	75,831	4,180	22,912	48,739	0
Department of the Air Force	27,537	0	15,837	11,610	90	13,190	4,741	8,449	0	0
Defense agencies	17,234	0	2,984	11,617	2,633	16,517	3,362	5,552	7,603	0
Department of Energy	304,696	0	39,903	262,128	2,665	46,737	22,511	20,162	2,610	1,454
Dept of Health & Human Svcs, total	88,073	0	83,672	4,401	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	2,162	0	2,162	0	0	0	0	0	0	0
Nat'l Institutes of Health	85,911	0	81,510	4,401	0	0	0	0	0	0
Other agencies:										
Nat'l Aeronautics & Space Admin	165,442	64,812	5,688	76,603	18,339	114,946	44,362	19,701	9,023	41,860
Nat'l Science Foundation	395,775	39,577	150,287	194,007	11,904	282,746	62,509	97,667	67,549	55,021

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-87. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c
Total, all agencies	1,180,539	122,026	370,314	633,031	55,168	619,841	189,380	187,780	130,672	112,009
Departments:										
Department of Agriculture, total	20,910	0	20,200	710	0	2,970	2,166	804	0	0
Agricultural Research Svc	1,552	0	842	710	0	1,233	922	311	0	0
Cooperative State Research Svc	19,358	0	19,358	0	0	849	849	0	0	0
Forest Svc	0	0	0	0	0	888	395	493	0	0
Department of Defense, total	123,149	0	50,238	57,094	15,817	119,548	15,067	38,716	58,235	7,530
Department of the Army	13,487	0	7,213	6,209	65	8,193	3,703	1,576	0	2,914
Department of the Navy	41,260	0	16,343	24,685	232	79,411	4,190	23,398	51,823	0
Department of the Air Force	27,336	0	15,132	12,113	91	12,285	5,815	6,470	0	0
Defense agencies	41,066	0	11,550	14,087	15,429	19,659	1,359	7,272	6,412	4,616
Department of Energy	295,217	0	42,302	249,685	3,230	47,109	23,350	19,934	2,464	1,361
Dept of Health & Human Svcs, total	113,799	0	87,984	25,815	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	2,283	0	2,256	27	0	0	0	0	0	0
Nat'l Institutes of Health	111,516	0	85,728	25,788	0	0	0	0	0	0
Other agencies:										
Nat'l Aeronautics & Space Admin	195,896	[illegible]	6,735	90,704	21,715	136,131	52,554	23,328	10,684	49,565
Nat'l Science Foundation	431,568	45,[illegible]	162,855	209,023	14,406	314,083	96,243	104,998	59,289	53,553

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-88. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c
Total, all agencies	1,213,292	132,450	400,302	632,532	48,008	711,055	225,751	209,409	153,675	122,220
Departments:										
Department of Agriculture, total	18,322	0	17,579	743	0	3,054	2,310	744	0	0
Agricultural Research Svc	1,622	0	879	743	0	1,287	1,057	230	0	0
Cooperative State Research Svc	16,700	0	16,700	0	0	842	842	0	0	0
Forest Svc	0	0	0	0	0	925	411	514	0	0
Department of Defense, total	115,287	58	53,519	58,672	3,038	129,834	15,431	41,199	69,374	3,830
Department of the Army	14,084	0	7,365	6,694	25	6,295	3,293	1,672	0	1,330
Department of the Navy	49,078	0	19,596	29,214	268	96,695	5,049	28,672	62,974	0
Department of the Air Force	27,993	0	15,859	12,015	119	13,580	5,163	8,417	0	0
Defense agencies	24,132	58	10,699	10,749	2,626	13,264	1,926	2,438	6,400	2,500
Department of Energy	295,225	0	45,025	244,260	5,940	64,940	39,162	20,289	3,418	2,071
Dept of Health & Human Svcs, total	97,629	0	92,536	5,093	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	2,416	0	2,387	29	0	0	0	0	0	0
Nat'l Institutes of Health	95,213	0	90,149	5,064	0	0	0	0	0	0
Other agencies:										
Nat'l Aeronautics & Space Admin	209,224	81,963	7,193	96,875	23,193	145,393	56,130	24,915	11,411	52,937
Nat'l Science Foundation	477,605	50,429	184,450	226,889	15,837	367,834	112,718	122,262	69,472	63,382

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-89. Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	828,843	58,261	21,888	75,554	48,139	142,787	98,472	213,765	169,977
Departments:									
Department of Agriculture, total	21,968	0	0	1,785	804	329	261	0	18,789
Agricultural Research Svc	3,179	0	0	1,785	804	329	261	0	0
Cooperative State Research Svc	18,789	0	0	0	0	0	0	0	18,789
Department of Defense, total	318,349	20,562	10,708	1,842	16,924	78,437	39,626	144,444	5,806
Department of the Army	37,703	3,141	331	1,123	5,633	14,855	3,951	5,969	2,700
Department of the Navy	79,114	569	3,574	569	1,058	29,257	24,531	19,408	148
Department of the Air Force	64,512	11,906	5,770	150	5,826	19,369	7,952	13,256	283
Defense agencies	137,020	4,946	1,033	0	4,407	14,956	3,192	105,811	2,675
Department of Energy	98,127	0	0	26,116	3,070	2,388	10,857	21,708	33,988
Dept of Health & Human Svcs, total	39,798	0	0	0	0	0	0	0	39,798
Alcohol, Drug Abuse, & Mental Health Admin	569	0	0	0	0	0	0	0	569
Nat'l Institutes of Health	39,229	0	0	0	0	0	0	0	39,229
Other agencies:									
Nat'l Aeronautics & Space Admin	113,810	36,976	11,180	2,104	340	9,240	11,383	20,317	22,270
Nat'l Science Foundation	236,791	723	0	43,707	27,001	52,393	36,345	27,296	49,326

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-90. Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	924,145	61,729	25,189	70,124	47,675	166,027	117,177	196,103	240,121
Departments:									
Department of Agriculture, total	24,017	0	0	1,580	1,089	351	289	0	20,708
Agricultural Research Svc	3,309	0	0	1,580	1,089	351	289	0	0
Cooperative State Research Svc	20,708	0	0	0	0	0	0	0	20,708
Department of Defense, total	338,521	17,163	11,951	2,386	13,473	94,678	53,778	120,033	25,059
Department of the Army	33,179	2,988	325	952	5,031	13,135	3,769	5,788	1,191
Department of the Navy	81,655	603	3,781	603	1,119	29,877	24,998	20,517	157
Department of the Air Force	58,049	10,169	5,536	151	5,877	21,400	8,170	6,459	287
Defense agencies	165,638	3,403	2,309	680	1,446	30,266	16,841	87,269	23,424
Department of Energy	128,041	0	0	16,675	3,408	2,613	10,929	23,611	70,805
Dept of Health & Human Svcs, total	41,890	0	0	0	0	0	0	0	41,890
Alcohol, Drug Abuse, & Mental Health Admin	628	0	0	0	0	0	0	0	628
Nat'l Institutes of Health	41,262	0	0	0	0	0	0	0	41,262
Other agencies:									
Nat'l Aeronautics & Space Admin	134,760	43,783	13,238	2,491	403	10,941	13,479	24,057	26,368
Nat'l Science Foundation	256,916	783	0	46,992	29,302	57,444	38,702	28,402	55,291

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-91. Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	1,048,285	69,231	26,542	77,318	55,802	182,458	132,548	208,212	296,174
Departments:									
Department of Agriculture, total	20,522	0	0	2,085	988	244	157	0	17,048
Agricultural Research Svc	3,474	0	0	2,085	988	244	157	0	0
Cooperative State Research Svc	17,048	0	0	0	0	0	0	0	17,048
Department of Defense, total	443,988	21,525	12,404	3,854	15,015	97,675	59,469	122,494	111,552
Department of the Army	35,745	3,241	275	596	6,347	13,074	4,232	6,292	1,688
Department of the Navy	97,050	685	4,297	685	1,272	36,291	29,514	24,128	178
Department of the Air Force	69,004	13,510	6,385	198	5,798	21,291	8,073	13,375	374
Defense agencies	242,189	4,089	1,447	2,375	1,598	27,019	17,650	78,699	109,312
Department of Energy	87,104	0	0	12,434	3,836	2,997	12,235	26,215	29,387
Dept of Health & Human Svcs, total	44,066	0	0	0	0	0	0	0	44,066
Alcohol, Drug Abuse, & Mental Health Admin	669	0	0	0	0	0	0	0	669
Nat'l Institutes of Health	43,397	0	0	0	0	0	0	0	43,397
Other agencies:									
Nat'l Aeronautics & Space Admin	143,928	46,762	14,138	2,661	430	11,685	14,396	25,693	28,163
Nat'l Science Foundation	308,677	944	0	56,284	35,533	69,857	46,291	33,810	65,958

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-92. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	398,710	121,910	251,720	25,080	213,691	8,660	50,900	5,980	92,667	55,484
Departments:										
Department of Agriculture, total	1,776	867	909	0	41,169	0	34,397	0	6,772	0
Agricultural Cooperative Svc	0	0	0	0	2	0	2	0	0	0
Agricultural Research Svc	1,011	102	909	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	37,611	0	30,839	0	6,772	0
Economic Research Svc	0	0	0	0	1,758	0	1,758	0	0	0
Forest Svc	502	502	0	0	1,798	0	1,798	0	0	0
Nat'l Agricultural Statistics Svc	263	263	0	0	0	0	0	0	0	0
Department of Defense, total	181,551	25,829	133,482	22,240	913	0	54	0	36	823
Department of the Army	10,432	4,362	5,816	254	90	0	54	0	36	0
Department of the Navy	24,852	12,018	11,268	1,566	0	0	0	0	0	0
Department of the Air Force	15,171	163	1,097	13,911	0	0	0	0	0	0
Defense agencies	131,096	9,286	115,301	6,509	823	0	0	0	0	823
Department of Energy	20,155	16,280	3,875	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	6,842	6,477	365	0	135,970	1,238	5,406	1,733	81,743	45,850
Admin on Aging 1/	0	0	0	0	882	0	0	0	0	882
Admin for Children and Families 1/	0	0	0	0	2,265	0	0	0	0	2,265
Agency for Health Care Policy & Research 2/	0	0	0	0	48,392	0	0	0	48,392	0
Alcohol, Drug Abuse, & Mental Health Admin	1,321	956	365	0	46,194	1,238	2,298	1,733	32,676	8,249
Health Care Financing Admin	0	0	0	0	10,700	0	0	0	0	10,700
Nat'l Institutes of Health	5,521	5,521	0	0	22,285	0	0	0	0	22,285
Office of the Secretary	0	0	0	0	3,783	0	3,108	0	675	0
Social Security Admin	0	0	0	0	1,469	0	0	0	0	1,469
Other agencies:										
Nat'l Aeronautics & Space Admin	25,007	623	21,844	2,540	126	0	36	0	90	0
Nat'l Science Foundation	163,379	71,834	91,245	300	35,513	7,422	11,007	4,247	4,026	8,811

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-93. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	505,082	131,218	346,369	27,495	218,708	9,179	51,215	6,438	94,707	57,169
Departments:										
Department of Agriculture, total	1,631	778	853	0	43,460	0	36,402	0	7,058	0
Agricultural Cooperative Svc	0	0	0	0	220	0	220	0	0	0
Agricultural Research Svc	1,009	156	853	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	39,979	0	32,921	0	7,058	0
Economic Research Svc	0	0	0	0	1,700	0	1,700	0	0	0
Forest Svc	437	437	0	0	1,561	0	1,561	0	0	0
Nat'l Agricultural Statistics Svc	185	185	0	0	0	0	0	0	0	0
Department of Defense, total	271,115	30,951	216,676	23,488	65	0	39	0	26	0
Department of the Army	11,708	4,758	6,950	0	65	0	39	0	26	0
Department of the Navy	24,311	12,009	11,170	1,132	0	0	0	0	0	0
Department of the Air Force	14,325	165	1,112	13,048	0	0	0	0	0	0
Defense agencies	220,771	14,019	197,444	9,308	0	0	0	0	0	0
Department of Energy	17,181	13,180	4,001	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	7,249	6,846	403	0	136,004	1,248	2,348	1,912	83,474	47,022
Admin on Aging 1/	0	0	0	0	1,400	0	0	0	0	1,400
Admin for Children and Families 1/	0	0	0	0	2,080	0	0	0	0	2,080
Agency for Health Care Policy & Research 2/	0	0	0	0	47,670	0	0	0	47,670	0
Alcohol, Drug Abuse, & Mental Health Admin	1,457	1,054	403	0	48,831	1,248	2,348	1,912	34,766	8,557
Health Care Financing Admin	0	0	0	0	10,496	0	0	0	0	10,496
Nat'l Institutes of Health	5,792	5,792	0	0	23,441	0	0	0	0	23,441
Office of the Secretary	0	0	0	0	1,038	0	0	0	1,038	0
Social Security Admin	0	0	0	0	1,048	0	0	0	0	1,048
Other agencies:										
Nat'l Aeronautics & Space Admin	29,610	738	25,865	3,007	150	0	43	0	107	0
Nat'l Science Foundation	178,296	78,725	98,571	1,000	39,029	7,931	12,383	4,526	4,042	10,147

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-94. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	550,076	140,088	381,803	28,185	211,750	10,654	48,588	7,241	84,981	60,286
Departments:										
Department of Agriculture, total	1,675	803	872	0	35,993	0	29,103	0	6,890	0
Agricultural Research Svc	1,035	163	872	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	32,666	0	25,776	0	6,890	0
Economic Research Svc	0	0	0	0	1,700	0	1,700	0	0	0
Forest Svc	455	455	0	0	1,627	0	1,627	0	0	0
Nat'l Agricultural Statistics Svc	185	185	0	0	0	0	0	0	0	0
Department of Defense, total	273,349	28,389	221,987	22,973	67	0	40	0	27	0
Department of the Army	11,573	5,022	6,551	0	67	0	40	0	27	0
Department of the Navy	30,489	15,014	14,050	1,425	0	0	0	0	0	0
Department of the Air Force	15,442	216	1,452	13,774	0	0	0	0	0	0
Defense agencies	215,845	8,137	199,934	7,774	0	0	0	0	0	0
Department of Energy	18,823	14,762	4,061	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	7,659	7,230	429	0	127,291	1,255	2,885	2,139	72,830	48,182
Admin on Aging 1/	0	0	0	0	1,200	0	0	0	0	1,200
Admin for Children and Families 1/	0	0	0	0	2,099	0	0	0	0	2,099
Agency for Health Care Policy & Research 2/	0	0	0	0	35,339	0	0	0	35,339	0
Alcohol, Drug Abuse, & Mental Health Admin	1,554	1,125	429	0	51,306	1,255	2,385	2,039	36,591	9,036
Health Care Financing Admin	0	0	0	0	10,584	0	0	0	0	10,584
Nat'l Institutes of Health	6,105	6,105	0	0	24,658	0	0	0	0	24,658
Office of the Secretary	0	0	0	0	1,500	0	500	100	900	0
Social Security Admin	0	0	0	0	605	0	0	0	0	605
Other agencies:										
Nat'l Aeronautics & Space Admin	31,625	788	27,625	3,212	160	0	46	0	114	0
Nat'l Science Foundation	216,945	88,116	126,829	2,000	48,239	9,399	16,514	5,102	5,120	12,104

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-95. Federal obligations for basic research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Field of science and engineering	1991	Estimates	
		1992	1993
Total, all fields	5,987,152	6,515,787	6,995,111
Life sciences, total	3,328,374	3,543,267	3,799,056
Biological (excluding environmental)	1,867,034	1,969,998	2,123,508
Environmental biology	103,192	116,428	126,972
Agricultural	79,206	90,885	101,507
Medical	1,185,927	1,272,196	1,341,728
Life sciences, n.e.c	93,015	99,760	105,341
Psychology, total	149,095	160,092	170,840
Biological aspects	43,714	48,443	55,548
Social aspects	46,847	49,772	51,917
Psychological sciences, n.e.c.	58,534	61,877	63,375
Physical sciences, total	900,354	983,762	1,017,096
Astronomy	97,207	113,297	122,916
Chemistry	299,872	329,953	360,485
Physics	471,158	490,408	493,551
Physical sciences, n.e.c.	32,117	50,104	40,144
Environmental sciences, total	522,786	579,034	674,654
Atmospheric	139,086	180,460	216,456
Geological	163,724	175,452	202,665
Oceanography	133,784	129,031	151,727
Environmental sciences, n.e.c.	86,192	94,091	103,806
Mathematics & computer sciences, total	295,141	339,829	379,800
Mathematics	117,321	125,972	134,458
Computer sciences	158,032	190,164	224,599
Mathematics & computer sciences, n.e.c.	19,788	23,693	20,743
Engineering, total	555,781	646,710	669,967
Aeronautical	41,832	44,740	48,677
Astronautical	13,305	15,895	15,935
Chemical	42,990	43,581	51,616
Civil	35,408	34,922	40,198
Electrical	98,401	121,030	134,398
Mechanical	82,996	101,078	113,812
Metallurgy & materials	146,944	140,923	160,745
Engineering, n.e.c.	93,905	144,541	104,586
Social sciences, total	72,168	75,668	82,460
Anthropology	7,594	7,882	9,080
Economics	20,903	22,164	23,967
Political science	4,356	4,622	5,339
Sociology	17,234	18,349	19,434
Social sciences, n.e.c.	22,081	22,651	24,640
Other sciences, n.e.c.	163,453	181,425	201,238

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal years 1991, 1992, and 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-96. Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	5,987,152	3,328,374	149,095	900,354	522,786	295,141	555,781	72,168	163,453
Departments:									
Department of Agriculture, total	173,075	143,726	0	7,663	1,365	763	7,597	11,961	0
Agricultural Research Svc	10,898	7,045	0	842	669	565	1,777	0	0
Cooperative State Research Svc	155,431	131,493	0	6,821	292	0	5,820	11,005	0
Economic Research Svc	246	0	0	0	0	0	0	246	0
Forest Svc	6,500	5,188	0	0	404	198	0	710	0
Department of Defense, total	545,946	48,413	17,854	80,650	100,921	90,045	207,199	823	41
Department of the Army	55,540	8,840	2,096	11,726	3,919	8,277	20,668	0	14
Department of the Navy	215,595	19,374	12,125	29,692	74,512	23,541	56,324	0	27
Department of the Air Force	111,048	12,857	0	25,145	11,534	13,791	47,721	0	0
Defense agencies	163,763	7,342	3,633	14,087	10,956	44,436	82,486	823	0
Department of Energy	395,483	47,430	0	233,857	40,105	20,155	53,936	0	0
Dept of Health & Human Svcs, total	3,167,998	2,827,368	127,526	72,532	0	4,402	27,958	28,822	79,390
Alcohol, Drug Abuse, & Mental Health Admin	262,340	155,417	75,934	1,110	0	545	569	16,105	12,660
Nat'l Institutes of Health	2,905,658	2,671,951	51,592	71,422	0	3,857	27,389	12,717	66,730
Other agencies:									
Nat'l Aeronautics & Space Admin	357,838	27,089	2,323	120,292	100,006	22,911	71,981	90	13,146
Nat'l Science Foundation	1,346,812	234,348	1,392	385,360	280,389	156,865	187,110	30,472	70,876

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-97. Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	6,515,787	3,549,267	160,092	983,762	579,034	339,829	646,710	75,668	181,425
Departments:									
Department of Agriculture, total	196,370	164,713	0	8,470	1,357	735	8,534	12,561	0
Agricultural Research Svc	11,452	7,404	0	885	703	563	1,897	0	0
Cooperative State Research Svc	179,039	152,806	0	7,585	304	0	6,637	11,707	0
Economic Research Svc	238	0	0	0	0	0	0	238	0
Forest Svc	5,641	4,503	0	0	350	172	0	616	0
Department of Defense, total	648,819	60,622	19,900	105,879	106,134	119,969	234,286	0	2,029
Department of the Army	60,689	9,769	2,586	12,606	4,187	9,417	22,123	0	1
Department of the Navy	220,833	19,151	12,114	30,686	78,034	22,943	57,877	0	28
Department of the Air Force	102,016	11,397	0	24,913	10,607	12,927	42,172	0	0
Defense agencies	265,281	20,305	5,200	37,674	13,306	74,682	112,114	0	2,000
Department of Energy	422,529	57,936	0	217,977	42,588	17,181	86,797	0	50
Dept of Health & Human Svcs, total	3,355,220	2,980,894	135,907	91,090	0	4,660	29,438	30,407	82,824
Alcohol, Drug Abuse, & Mental Health Admin	280,447	166,677	81,639	1,210	0	601	628	17,032	12,660
Nat'l Institutes of Health	3,074,773	2,814,217	54,268	89,880	0	4,059	28,810	13,375	70,164
Other agencies:									
Nat'l Aeronautics & Space Admin	423,733	32,075	2,751	142,435	118,441	27,128	85,231	107	15,565
Nat'l Science Foundation	1,469,116	253,027	1,534	417,911	310,514	170,156	202,424	32,593	80,957

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-98. Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	6,995,111	3,799,056	170,840	1,017,096	674,654	379,800	669,967	82,460	201,238
Departments:									
Department of Agriculture, total	215,437	185,805	0	8,167	1,414	766	8,487	10,798	0
Agricultural Research Svc	12,053	7,792	0	931	740	587	2,003	0	0
Cooperative State Research Svc	197,268	173,321	0	7,236	309	0	6,484	9,918	0
Economic Research Svc	238	0	0	0	0	0	0	238	0
Forest Svc	5,878	4,692	0	0	365	179	0	642	0
Department of Defense, total	681,848	68,297	23,137	97,353	122,795	119,958	250,275	0	33
Department of the Army	63,276	9,940	3,406	12,988	4,499	9,289	23,154	0	0
Department of the Navy	267,461	22,228	14,644	36,890	95,109	28,912	69,645	0	33
Department of the Air Force	109,634	12,694	0	24,827	11,388	13,616	47,109	0	0
Defense agencies	233,977	15,935	5,087	22,648	11,799	68,141	110,367	0	0
Health Affairs, Assistant Secretary of Defense for	7,500	7,500	0	0	0	0	0	0	0
Department of Energy	405,188	61,133	0	218,314	60,669	18,823	46,249	0	0
Dept of Health & Human Svcs, total	3,530,006	3,152,786	142,726	80,454	0	4,909	30,958	31,745	86,428
Alcohol, Drug Abuse, & Mental Health Admin	293,310	174,703	85,671	1,282	0	642	669	17,683	12,660
Nat'l Institutes of Health	3,236,696	2,978,083	57,055	79,172	0	4,267	30,289	14,062	73,768
Other agencies:									
Nat'l Aeronautics & Space Admin	452,563	34,258	2,938	152,126	126,499	28,974	91,030	114	16,624
Nat'l Science Foundation	1,710,069	296,777	2,039	460,682	363,277	206,370	242,968	39,803	98,153

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-99. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	149,095	43,714	46,847	58,534	3,328,374	1,867,034	103,192	79,206	1,185,927	93,015
Departments:										
Department of Agriculture, total	0	0	0	0	143,726	39,237	21,712	77,365	5,412	0
Agricultural Research Svc	0	0	0	0	7,045	2,685	283	4,025	52	0
Cooperative State Research Svc	0	0	0	0	131,493	32,961	19,832	73,340	5,360	0
Forest Svc	0	0	0	0	5,188	3,591	1,597	0	0	0
Department of Defense, total	17,854	4,962	9,219	3,673	48,413	27,889	8,591	0	11,933	0
Department of the Army	2,096	0	2,027	69	8,840	2,372	33	0	6,435	0
Department of the Navy	12,125	4,962	5,559	1,604	19,374	7,016	6,860	0	5,498	0
Department of the Air Force	0	0	0	0	12,857	12,857	0	0	0	0
Defense agencies	3,633	0	1,633	2,000	7,342	5,644	1,698	0	0	0
Department of Energy	0	0	0	0	47,430	45,578	188	178	0	1,486
Dept of Health & Human Svcs, total	127,526	38,327	36,759	52,440	2,827,368	1,578,080	538	1,211	1,163,401	84,138
Alcohol, Drug Abuse, & Mental Health Admin	75,934	38,327	36,759	848	155,417	105,964	404	1,211	35,922	11,916
Nat'l Institutes of Health	51,592	0	0	51,592	2,671,951	1,472,116	134	0	1,127,479	72,222
Other agencies:										
Nat'l Aeronautics & Space Admin	2,323	71	563	1,689	27,089	13,899	1,403	452	5,181	6,154
Nat'l Science Foundation	1,392	354	306	732	234,348	162,351	70,760	0	0	1,237

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-100. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	160,092	48,443	49,772	61,877	3,549,267	1,969,998	116,428	90,885	1,272,196	99,760
Departments:										
Department of Agriculture, total	0	0	0	0	164,713	47,001	22,989	88,964	5,759	0
Agricultural Research Svc	0	0	0	0	7,404	2,822	298	4,229	55	0
Cooperative State Research Svc	0	0	0	0	152,806	41,062	21,305	84,735	5,704	0
Forest Svc	0	0	0	0	4,503	3,117	1,386	0	0	0
Department of Defense, total	19,900	6,346	9,643	3,911	60,622	29,519	14,711	0	16,392	0
Department of the Army	2,586	0	2,278	308	9,769	2,585	16	0	7,168	0
Department of the Navy	12,114	4,957	5,554	1,603	19,151	6,814	6,854	0	5,483	0
Department of the Air Force	0	0	0	0	11,397	11,397	0	0	0	0
Defense agencies	5,200	1,389	1,811	2,000	20,305	8,723	7,841	0	3,741	0
Department of Energy	0	0	0	0	57,936	55,698	179	175	0	1,884
Dept of Health & Human Svcs, total	135,907	41,617	39,126	55,164	2,980,894	1,646,418	558	1,211	1,243,910	88,797
Alcohol, Drug Abuse, & Mental Health Admin	81,639	41,617	39,126	896	166,677	112,987	404	1,211	39,222	12,853
Nat'l Institutes of Health	54,268	0	0	54,268	2,814,217	1,533,431	154	0	1,204,688	75,944
Other agencies:										
Nat'l Aeronautics & Space Admin	2,751	84	667	2,000	32,075	16,457	1,661	535	6,135	7,287
Nat'l Science Foundation	1,534	396	336	802	253,027	174,905	76,330	0	0	1,792

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-101. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	170,840	55,548	51,917	63,375	3,799,056	2,123,508	126,972	101,507	1,341,728	105,341
Departments:										
Department of Agriculture, total	0	0	0	0	185,805	62,240	21,281	99,534	2,750	0
Agricultural Research Svc	0	0	0	0	7,792	2,970	314	4,451	57	0
Cooperative State Research Svc	0	0	0	0	173,321	56,022	19,523	95,083	2,693	0
Forest Svc	0	0	0	0	4,692	3,248	1,444	0	0	0
Department of Defense, total	23,137	10,774	10,033	2,330	68,297	31,737	13,132	0	23,428	0
Department of the Army	3,406	0	3,013	393	9,940	2,747	25	0	7,168	0
Department of the Navy	14,644	5,993	6,714	1,937	22,228	8,876	8,285	0	5,067	0
Department of the Air Force	0	0	0	0	12,694	12,694	0	0	0	0
Defense agencies	5,087	4,781	306	0	15,935	7,420	4,822	0	3,693	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	7,500	0	0	0	7,500	0
Department of Energy	0	0	0	0	61,133	58,621	199	190	0	2,123
Dept of Health & Human Svcs, total	142,726	43,952	40,790	57,984	3,152,786	1,748,655	566	1,211	1,308,998	93,356
Alcohol, Drug Abuse, & Mental Health Admin	85,671	43,952	40,790	929	174,703	118,045	404	1,211	41,532	13,511
Nat'l Institutes of Health	57,055	0	0	57,055	2,978,083	1,630,610	162	0	1,267,466	79,845
Other agencies:										
Nat'l Aeronautics & Space Admin	2,938	90	712	2,136	34,258	17,577	1,774	572	6,552	7,783
Nat'l Science Foundation	2,039	732	382	925	296,777	204,678	90,020	0	0	2,079

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-102. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	900,354	97,207	299,872	471,158	32,117	522,786	139,086	163,724	133,784	86,192
Departments:										
Department of Agriculture, total	7,663	0	7,278	385	0	1,365	1,036	329	0	0
Agricultural Research Svc	842	0	457	385	0	669	565	104	0	0
Cooperative State Research Svc	6,821	0	6,821	0	0	292	292	0	0	0
Forest Svc	0	0	0	0	0	404	179	225	0	0
Department of Defense, total	80,650	0	38,914	39,380	2,356	100,921	13,054	32,438	55,389	40
Department of the Army	11,726	0	5,882	5,830	14	3,919	2,464	1,415	0	40
Department of the Navy	29,692	0	14,871	14,821	0	74,512	3,931	22,795	47,786	0
Department of the Air Force	25,145	0	15,177	9,968	0	11,534	3,306	8,228	0	0
Defense agencies	14,087	0	2,984	8,761	2,342	10,956	3,353	0	7,603	0
Department of Energy	233,857	0	32,932	199,510	1,415	40,105	22,486	14,387	2,610	622
Dept of Health & Human Svcs, total	72,532	0	69,190	3,342	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	1,110	0	1,110	0	0	0	0	0	0	0
Nat'l Institutes of Health	71,422	0	68,080	3,342	0	0	0	0	0	0
Other agencies:										
Nat'l Aeronautics & Space Admin	120,292	57,695	5,583	39,933	17,081	100,006	40,528	19,671	9,023	30,784
Nat'l Science Foundation	385,360	39,512	145,975	188,608	11,265	280,389	61,982	96,899	66,762	54,746

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-103. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	903,762	113,297	329,953	490,408	50,104	579,034	180,460	175,452	129,031	94,091
Departments:										
Department of Agriculture, total	8,470	0	8,065	405	0	1,357	1,053	304	0	0
Agricultural Research Svc	885	0	480	405	0	703	593	110	0	0
Cooperative State Research Svc	7,585	0	7,585	0	0	304	304	0	0	0
Forest Svc	0	0	0	0	0	350	156	194	0	0
Department of Defense, total	105,879	0	47,731	42,808	15,340	106,134	12,229	31,963	57,241	4,701
Department of the Army	12,606	0	6,357	6,184	65	4,187	2,580	1,522	0	85
Department of the Navy	30,686	0	15,361	15,325	0	78,034	3,929	23,276	50,829	0
Department of the Air Force	24,913	0	14,463	10,450	0	10,607	4,361	6,246	0	0
Defense agencies	37,674	0	11,550	10,849	15,275	13,306	1,359	919	6,412	4,616
Department of Energy	217,977	0	37,842	178,730	1,405	42,588	23,325	16,247	2,464	552
Dept of Health & Human Svcs, total	91,090	0	72,792	18,298	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	1,210	0	1,183	27	0	0	0	0	0	0
Nat'l Institutes of Health	89,880	0	71,609	18,271	0	0	0	0	0	0
Other agencies:										
Nat'l Aeronautics & Space Admin	142,435	68,315	6,611	47,284	20,225	118,441	48,014	23,292	10,684	36,451
Nat'l Science Foundation	417,911	44,982	156,912	202,883	13,134	310,514	95,839	103,646	58,642	52,387

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-104. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,017,096	122,916	360,485	493,551	40,144	674,654	216,456	202,665	151,727	103,806
Departments:										
Department of Agriculture, total	8,167	0	7,741	426	0	1,414	1,089	325	0	0
Agricultural Research Svc	931	0	505	426	0	740	618	122	0	0
Cooperative State Research Svc	7,236	0	7,236	0	0	309	309	0	0	0
Forest Svc	0	0	0	0	0	365	162	203	0	0
Department of Defense, total	97,353	58	50,594	44,176	2,525	122,795	12,707	39,249	68,229	2,610
Department of the Army	12,988	0	6,446	6,517	25	4,499	2,768	1,621	0	110
Department of the Navy	36,890	0	18,464	18,426	0	95,109	4,749	28,531	61,829	0
Department of the Air Force	24,627	0	14,985	9,842	0	11,388	3,264	8,124	0	0
Defense agencies	22,648	58	10,699	9,391	2,500	11,799	1,926	973	6,400	2,500
Department of Energy	218,314	0	41,693	175,031	1,590	60,669	39,137	17,540	3,418	574
Dept of Health & Human Svcs, total	80,454	0	76,540	3,914	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	1,282	0	1,253	29	0	0	0	0	0	0
Nat'l Institutes of Health	79,172	0	75,287	3,885	0	0	0	0	0	0
Other agencies:										
Nat'l Aeronautics & Space Admin	152,126	72,963	7,060	50,501	21,602	126,499	51,281	24,877	11,411	38,930
Nat'l Science Foundation	460,682	49,895	176,857	219,503	14,427	363,277	112,242	120,674	68,669	61,692

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-105. Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	555,781	41,832	13,305	42,990	35,408	98,401	82,996	146,944	93,905
Departments:									
Department of Agriculture, total	7,597	0	0	1,013	444	179	141	0	5,820
Agricultural Research Svc	1,777	0	0	1,013	444	179	141	0	0
Cooperative State Research Svc	5,820	0	0	0	0	0	0	0	5,820
Department of Defense, total	207,199	13,092	4,753	17	12,248	49,775	32,358	92,468	2,488
Department of the Army	20,668	2,443	0	17	2,148	8,544	2,191	5,295	30
Department of the Navy	56,324	0	0	0	0	21,095	19,681	15,548	0
Department of the Air Force	47,721	5,703	3,720	0	5,693	12,908	7,294	12,403	0
Defense agencies	82,486	4,946	1,033	0	4,407	7,228	3,192	59,222	2,458
Department of Energy	53,936	0	0	6,790	0	0	10,790	20,961	15,395
Dept of Health & Human Svcs, total	27,958	0	0	0	0	0	0	0	27,958
Alcohol, Drug Abuse, & Mental Health Admin	569	0	0	0	0	0	0	0	569
Nat'l Institutes of Health	27,389	0	0	0	0	0	0	0	27,389
Other agencies:									
Nat'l Aeronautics & Space Admin	71,981	28,161	8,552	2,064	340	6,754	9,261	9,878	6,971
Nat'l Science Foundation	187,110	579	0	33,106	22,376	41,693	30,446	23,637	35,273

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-106. Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	646,710	44,740	15,895	43,581	34,922	121,030	101,078	140,923	144,541
Departments:									
Department of Agriculture, total	8,534	0	0	831	643	236	187	0	6,637
Agricultural Research Svc	1,897	0	0	831	643	236	187	0	0
Cooperative State Research Svc	6,637	0	0	0	0	0	0	0	6,637
Department of Defense, total	234,286	10,768	5,769	712	9,504	67,220	46,596	81,525	12,192
Department of the Army	22,123	2,349	0	32	2,316	9,259	2,385	5,737	45
Department of the Navy	57,877	0	0	0	0	21,579	19,866	16,432	0
Department of the Air Force	42,172	5,016	3,460	0	5,742	14,856	7,504	5,594	0
Defense agencies	112,114	3,403	2,309	680	1,446	21,526	16,841	53,762	12,147
Department of Energy	86,797	0	0	4,336	0	0	10,860	23,114	48,487
Dept of Health & Human Svcs, total	29,438	0	0	0	0	0	0	0	29,438
Alcohol, Drug Abuse, & Mental Health Admin	628	0	0	0	0	0	0	0	628
Nat'l Institutes of Health	28,810	0	0	0	0	0	0	0	28,810
Other agencies:									
Nat'l Aeronautics & Space Admin	85,231	33,345	10,126	2,444	403	7,997	10,966	11,696	8,254
Nat'l Science Foundation	202,424	627	0	35,258	24,372	45,577	32,469	24,588	39,533

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-107. Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	669,967	48,677	15,935	51,616	40,198	134,398	113,812	160,745	104,586
Departments:									
Department of Agriculture, total	8,487	0	0	1,173	590	146	94	0	6,484
Agricultural Research Svc	2,003	0	0	1,173	590	146	94	0	0
Cooperative State Research Svc	6,484	0	0	0	0	0	0	0	6,484
Department of Defense, total	250,275	12,307	5,120	2,375	9,607	70,333	51,062	93,197	6,274
Department of the Army	23,154	2,596	0	0	2,388	9,539	2,528	6,043	60
Department of the Navy	69,645	0	0	0	0	26,478	23,682	19,485	0
Department of the Air Force	47,109	5,622	3,673	0	5,621	12,745	7,202	12,246	0
Defense agencies	110,367	4,089	1,447	2,375	1,598	21,571	17,650	55,423	6,214
Department of Energy	46,249	0	0	3,233	0	0	12,163	25,828	5,025
Dept of Health & Human Svcs, total	30,958	0	0	0	0	0	0	0	30,958
Alcohol, Drug Abuse, & Mental Health Admin	669	0	0	0	0	0	0	0	669
Nat'l Institutes of Health	30,289	0	0	0	0	0	0	0	30,289
Other agencies:									
Nat'l Aeronautics & Space Admin	91,030	35,614	10,815	2,610	430	8,541	11,712	12,492	8,816
Nat'l Science Foundation	242,968	756	0	42,225	29,571	55,378	38,781	29,228	47,029

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-108. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	295,141	117,321	158,032	19,788	72,168	7,594	20,903	4,356	17,234	22,081
Departments:										
Department of Agriculture, total	763	255	508	0	11,961	0	9,734	0	2,227	0
Agricultural Research Svc	565	57	508	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	11,005	0	8,778	0	2,227	0
Economic Research Svc	0	0	0	0	246	0	246	0	0	0
Forest Svc	198	198	0	0	710	0	710	0	0	0
Department of Defense, total	90,045	25,482	47,173	17,390	823	0	0	0	0	823
Department of the Army	8,277	4,346	3,931	0	0	0	0	0	0	0
Department of the Navy	23,541	11,981	10,060	1,500	0	0	0	0	0	0
Department of the Air Force	13,791	0	0	13,791	0	0	0	0	0	0
Defense agencies	44,436	9,155	33,182	2,099	823	0	0	0	0	823
Department of Energy	20,155	16,280	3,875	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	4,402	4,037	365	0	28,822	855	1,508	576	11,941	13,942
Alcohol, Drug Abuse, & Mental Health Admin	545	180	365	0	16,105	855	1,508	576	11,941	1,225
Nat'l Institutes of Health	3,857	3,857	0	0	12,717	0	0	0	0	12,717
Other agencies:										
Nat'l Aeronautics & Space Admin	22,911	623	20,190	2,098	90	0	0	0	90	0
Nat'l Science Foundation	156,865	70,644	85,921	300	30,472	6,739	9,661	3,780	2,976	7,316

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-109. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	339,829	125,972	190,164	23,693	75,668	7,882	22,164	4,622	18,349	22,651
Departments:										
Department of Agriculture, total	735	228	507	0	12,561	0	10,240	0	2,321	0
Agricultural Research Svc	563	56	507	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	11,707	0	9,386	0	2,321	0
Economic Research Svc	0	0	0	0	238	0	238	0	0	0
Forest Svc	172	172	0	0	616	0	616	0	0	0
Department of Defense, total	119,969	30,586	68,674	20,709	0	0	0	0	0	0
Department of the Army	9,417	4,733	4,684	0	0	0	0	0	0	0
Department of the Navy	22,943	11,971	9,909	1,063	0	0	0	0	0	0
Department of the Air Force	12,927	0	0	12,927	0	0	0	0	0	0
Defense agencies	74,682	13,882	54,081	6,719	0	0	0	0	0	0
Department of Energy	17,181	13,180	4,001	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	4,660	4,257	403	0	30,407	855	1,523	636	12,711	14,682
Alcohol, Drug Abuse, & Mental Health Admin	601	198	403	0	17,032	855	1,523	636	12,711	1,307
Nat'l Institutes of Health	4,059	4,059	0	0	13,375	0	0	0	0	13,375
Other agencies:										
Nat'l Aeronautics & Space Admin	27,128	738	23,906	2,484	107	0	0	0	107	0
Nat'l Science Foundation	170,156	76,983	92,673	500	32,593	7,027	10,401	3,986	3,210	7,969

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-110. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	379,800	134,458	224,599	20,743	82,460	9,080	23,967	5,339	19,434	24,640
Departments:										
Department of Agriculture, total	766	237	529	0	10,798	0	8,474	0	2,324	0
Agricultural Research Svc	587	58	529	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	9,918	0	7,594	0	2,324	0
Economic Research Svc	0	0	0	0	238	0	238	0	0	0
Forest Svc	179	179	0	0	642	0	642	0	0	0
Department of Defense, total	119,958	28,035	74,333	17,590	0	0	0	0	0	0
Department of the Army	9,289	4,998	4,291	0	0	0	0	0	0	0
Department of the Navy	28,912	14,970	12,597	1,345	0	0	0	0	0	0
Department of the Air Force	13,616	0	0	13,616	0	0	0	0	0	0
Defense agencies	68,141	8,067	57,445	2,629	0	0	0	0	0	0
Department of Energy	18,823	14,762	4,061	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	4,909	4,480	429	0	31,745	855	1,535	678	13,250	15,427
Alcohol, Drug Abuse, & Mental Health Admin	642	213	429	0	17,683	855	1,535	678	13,250	1,365
Nat'l Institutes of Health	4,267	4,267	0	0	14,062	0	0	0	0	14,062
Other agencies:										
Nat'l Aeronautics & Space Admin	28,974	788	25,533	2,653	114	0	0	0	114	0
Nat'l Science Foundation	206,370	86,156	119,714	500	39,803	8,225	13,958	4,661	3,746	9,213

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-111. Federal obligations for applied research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Field of science and engineering	1991	Estimates	
		1992	1993
Total, all fields	2,546,043	2,726,358	2,900,400
Life sciences, total	1,638,923	1,704,671	1,785,504
Biological (excluding environmental)	738,151	771,233	816,714
Environmental biology	46,125	48,231	47,426
Agricultural	73,728	80,587	73,734
Medical	743,734	764,568	804,047
Life sciences, n.e.c	37,185	40,052	43,583
Psychology, total	107,049	113,291	120,038
Biological aspects	42,341	45,236	48,002
Social aspects	32,595	34,227	36,398
Psychological sciences, n.e.c.	32,113	33,828	35,638
Physical sciences, total	170,390	196,777	196,196
Astronomy	7,182	8,729	9,534
Chemistry	39,704	40,361	39,817
Physics	119,753	142,623	138,981
Physical sciences, n.e.c.	3,751	5,064	7,864
Environmental sciences, total	35,831	40,807	36,401
Atmospheric	8,024	8,920	9,295
Geological	12,934	12,328	6,744
Oceanography	1,740	1,641	1,948
Environmental sciences, n.e.c.	13,133	17,918	18,414
Mathematics & computer sciences, total	103,569	165,253	170,276
Mathematics	4,589	5,246	5,630
Computer sciences	93,688	156,205	157,204
Mathematics & computer sciences, n.e.c.	5,292	3,802	7,442
Engineering, total	273,062	277,435	378,318
Aeronautical	16,429	16,989	20,554
Astronautical	8,563	9,294	10,607
Chemical	32,564	26,543	25,702
Civil	12,731	12,753	15,604
Electrical	44,386	44,997	48,060
Mechanical	15,476	16,099	18,736
Metallurgy & materials	66,821	55,180	47,467
Engineering, n.e.c.	76,072	95,580	191,588
Social sciences, total	141,523	143,040	129,290
Anthropology	1,066	1,297	1,574
Economics	29,997	29,051	24,621
Political science	1,624	1,816	1,902
Sociology	75,433	76,358	65,547
Social sciences, n.e.c.	33,403	34,518	35,646
Other sciences, n.e.c.	75,696	85,064	84,377

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal research obligations to universities and colleges in fiscal years 1991, 1992, and 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-112. Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	2,546,043	1,638,923	107,049	170,390	35,831	103,569	273,062	141,523	75,696
Departments:									
Department of Agriculture, total	210,821	152,958	0	11,601	1,670	1,013	14,371	29,208	0
Agricultural Cooperative Svc	2	0	0	0	0	0	0	2	0
Agricultural Marketing Svc 1/	225	225	0	0	0	0	0	0	0
Agricultural Research Svc	8,593	5,554	0	664	527	446	1,402	0	0
Cooperative State Research Svc	189,155	138,119	0	10,937	524	0	12,969	26,606	0
Economic Research Svc	1,512	0	0	0	0	0	0	1,512	0
Federal Grain Inspection Svc	273	273	0	0	0	0	0	0	0
Forest Svc	9,969	7,958	0	0	619	304	0	1,088	0
Human Nutrition Information Svc	479	479	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	263	0	0	0	0	263	0	0	0
Office of International Cooperation & Development	350	350	0	0	0	0	0	0	0
Department of Defense, total	247,870	10,459	3,800	16,844	10,232	91,506	111,150	90	3,789
Department of the Army	31,859	7,598	1,802	1,169	1,696	2,155	17,035	90	314
Department of the Navy	38,116	1,113	1,124	10,136	1,319	1,311	22,790	0	323
Department of the Air Force	24,841	1,748	874	2,392	1,656	1,380	16,791	0	0
Defense agencies	153,054	0	0	3,147	5,561	86,660	54,534	0	3,152
Department of Energy	200,045	73,808	0	70,839	6,632	0	44,191	0	4,575
Dept of Health & Human Svcs, total	1,682,038	1,385,740	102,855	15,541	0	2,440	11,840	107,148	56,474
Admin on Aging 2/	882	0	0	0	0	0	0	882	0
Admin for Children and Families 2/	2,265	0	0	0	0	0	0	2,265	0
Agency for Health Care Policy & Research 3/	48,392	0	0	0	0	0	0	48,392	0
Alcohol, Drug Abuse, & Mental Health Admin	293,089	185,020	71,932	1,052	0	776	0	30,089	4,220
Centers for Disease Control	33,604	33,604	0	0	0	0	0	0	0
Food & Drug Admin	14,690	14,690	0	0	0	0	0	0	0
Health Care Financing Admin	10,700	0	0	0	0	0	0	10,700	0
Health Resources and Svcs Admin	5,381	5,381	0	0	0	0	0	0	0
Nat'l Institutes of Health	1,267,783	1,147,045	30,923	14,489	0	1,664	11,840	9,568	52,254
Office of the Secretary	3,783	0	0	0	0	0	0	3,783	0
Social Security Admin	1,469	0	0	0	0	0	0	1,469	0
Other agencies:									
Nat'l Aeronautics & Space Admin	116,576	7,676	220	45,150	14,940	2,096	41,829	36	4,629
Nat'l Science Foundation	88,693	8,282	174	10,415	2,357	6,514	49,681	5,041	6,229

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-113. Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	2,726,358	1,704,671	113,291	196,777	40,807	165,253	277,435	143,040	85,084
Departments:									
Department of Agriculture, total	225,919	164,588	0	12,440	1,613	896	15,483	30,899	0
Agricultural Cooperative Svc	220	0	0	0	0	0	0	220	0
Agricultural Research Svc	8,643	5,588	0	667	530	446	1,412	0	0
Cooperative State Research Svc	205,563	150,902	0	11,773	545	0	14,071	28,272	0
Economic Research Svc	1,462	0	0	0	0	0	0	1,462	0
Federal Grain Inspection Svc	270	270	0	0	0	0	0	0	0
Forest Svc	8,659	6,911	0	0	538	265	0	945	0
Human Nutrition Information Svc	630	630	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	185	0	0	0	0	185	0	0	0
Office of International Cooperation & Development	287	287	0	0	0	0	0	0	0
Department of Defense, total	307,258	16,915	3,300	17,270	13,414	151,146	104,235	65	913
Department of the Army	25,917	5,801	1,242	881	4,006	2,291	11,056	65	575
Department of the Navy	39,769	1,161	1,173	10,574	1,377	1,368	23,778	0	338
Department of the Air Force	24,032	1,771	885	2,423	1,678	1,398	15,877	0	0
Defense agencies	217,540	8,182	0	3,392	6,353	146,089	53,524	0	0
Department of Energy	186,392	53,255	0	77,240	4,521	0	41,244	0	10,132
Dept of Health & Human Svcs, total	1,763,898	1,451,833	109,543	22,709	0	2,589	12,452	105,597	59,175
Admin on Aging 1/	1,400	0	0	0	0	0	0	1,400	0
Admin for Children and Families 1/	2,080	0	0	0	0	0	0	2,080	0
Agency for Health Care Policy & Research 2/	47,670	0	0	0	0	0	0	47,670	0
Alcohol, Drug Abuse, & Mental Health Admin	311,776	196,802	77,026	1,073	0	856	0	31,799	4,220
Centers for Disease Control	33,604	33,604	0	0	0	0	0	0	0
Food & Drug Admin	16,185	16,185	0	0	0	0	0	0	0
Health Care Financing Admin	10,496	0	0	0	0	0	0	10,496	0
Health Resources and Svcs Admin	5,231	5,231	0	0	0	0	0	0	0
Nat'l Institutes of Health	1,333,370	1,200,011	32,517	21,636	0	1,733	12,452	10,066	54,955
Office of the Secretary	1,038	0	0	0	0	0	0	1,038	0
Social Security Admin	1,048	0	0	0	0	0	0	1,048	0
Other agencies:									
Nat'l Aeronautics & Space Admin	138,035	9,089	260	53,461	17,690	2,482	49,529	43	5,481
Nat'l Science Foundation	104,856	8,991	188	13,657	3,569	8,140	54,492	6,436	9,383

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-114. Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	2,900,400	1,785,504	120,038	196,196	36,401	170,276	378,318	129,290	84,377
Departments:									
Department of Agriculture, total	198,473	148,539	0	10,155	1,640	909	12,035	25,195	0
Agricultural Research Svc	8,928	5,771	0	691	547	448	1,471	0	0
Cooperative State Research Svc	178,080	134,771	0	9,464	533	0	10,564	22,748	0
Economic Research Svc	1,462	0	0	0	0	0	0	1,462	0
Federal Grain Inspection Svc	356	356	0	0	0	0	0	0	0
Forest Svc	9,022	7,201	0	0	560	276	0	985	0
Human Nutrition Information Svc	200	200	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	185	0	0	0	0	185	0	0	0
Office of International Cooperation & Development	240	240	0	0	0	0	0	0	0
Department of Defense, total	449,296	72,137	3,780	17,934	7,039	153,391	193,713	67	1,235
Department of the Army	25,456	5,508	1,271	1,096	1,796	2,284	12,591	67	843
Department of the Navy	45,837	1,337	1,352	12,188	1,586	1,577	27,405	0	392
Department of the Air Force	32,549	2,313	1,157	3,166	2,192	1,826	21,895	0	0
Defense agencies	298,975	16,500	0	1,484	1,465	147,704	131,822	0	0
Health Affairs, Assistant Secretary of Defense for	46,479	46,479	0	0	0	0	0	0	0
Department of Energy	137,449	11,630	0	76,911	4,271	0	40,855	0	3,782
Dept of Health & Human Svcs, total	1,840,263	1,533,878	115,737	17,175	0	2,750	13,108	95,546	62,069
Admin on Aging 1/	1,200	0	0	0	0	0	0	1,200	0
Admin for Children and Families 1/	2,099	0	0	0	0	0	0	2,099	0
Agency for Health Care Policy & Research 2/	35,339	0	0	0	0	0	0	35,339	0
Alcohol, Drug Abuse, & Mental Health Admin	329,672	208,276	81,507	1,134	0	912	0	33,623	4,220
Centers for Disease Control	33,604	33,604	0	0	0	0	0	0	0
Food & Drug Admin	16,842	16,842	0	0	0	0	0	0	0
Health Care Financing Admin	10,584	0	0	0	0	0	0	10,584	0
Health Resources and Svcs Admin	5,231	5,231	0	0	0	0	0	0	0
Nat'l Institutes of Health	1,403,587	1,269,925	34,230	16,041	0	1,838	13,108	10,596	57,849
Office of the Secretary	1,500	0	0	0	0	0	0	1,500	0
Social Security Admin	605	0	0	0	0	0	0	605	0
Other agencies:									
Nat'l Aeronautics & Space Admin	147,426	9,707	278	57,098	18,894	2,651	52,898	46	5,854
Nat'l Science Foundation	127,493	9,613	243	16,923	4,557	10,575	65,709	8,436	11,437

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-115. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	107,049	42,341	32,595	32,113	1,638,923	738,151	46,125	73,728	743,734	37,185
Departments:										
Department of Agriculture, total	0	0	0	0	152,958	39,745	41,027	67,846	4,340	0
Agricultural Marketing Svc 1/	0	0	0	0	225	0	0	225	0	0
Agricultural Research Svc	0	0	0	0	5,554	2,117	223	3,173	41	0
Cooperative State Research Svc	0	0	0	0	138,119	32,118	38,356	63,346	4,299	0
Federal Grain Inspection Svc	0	0	0	0	273	0	0	273	0	0
Forest Svc	0	0	0	0	7,958	5,510	2,448	0	0	0
Human Nutrition Information Svc	0	0	0	0	479	0	0	479	0	0
Office of International Cooperation & Development	0	0	0	0	350	0	0	350	0	0
Department of Defense, total	3,800	260	3,540	0	10,459	499	339	0	7,967	1,654
Department of the Army	1,802	88	1,714	0	7,598	226	141	0	7,231	0
Department of the Navy	1,124	172	952	0	1,113	273	129	0	711	0
Department of the Air Force	874	0	874	0	1,748	0	69	0	25	1,654
Department of Energy	0	0	0	0	73,808	727	100	50	72,598	333
Dept of Health & Human Svcs, total	102,855	42,058	28,942	31,855	1,385,740	687,093	266	5,792	658,365	34,224
Alcohol, Drug Abuse, & Mental Health Admin	71,932	42,058	28,942	932	185,020	103,072	135	403	74,170	7,240
Centers for Disease Control	0	0	0	0	33,604	0	0	0	33,604	0
Food & Drug Admin	0	0	0	0	14,690	7,561	0	5,389	0	1,740
Health Resources and Svcs Admin	0	0	0	0	5,381	0	0	0	5,381	0
Nat'l Institutes of Health	30,923	0	0	30,923	1,147,045	576,460	131	0	545,210	25,244
Other agencies:										
Nat'l Aeronautics & Space Admin	220	0	40	180	7,676	5,728	510	40	464	934
Nat'l Science Foundation	174	23	73	78	8,282	4,359	3,883	0	0	40

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-116. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	113,291	45,236	34,227	33,828	1,704,671	771,233	48,231	80,587	764,568	40,052
Departments:										
Department of Agriculture, total	0	0	0	0	164,588	43,088	42,984	73,975	4,541	0
Agricultural Research Svc	0	0	0	0	5,588	2,130	225	3,192	41	0
Cooperative State Research Svc	0	0	0	0	150,902	36,173	40,633	69,596	4,500	0
Federal Grain Inspection Svc	0	0	0	0	270	0	0	270	0	0
Forest Svc	0	0	0	0	6,911	4,785	2,126	0	0	0
Human Nutrition Information Svc	0	0	0	0	630	0	0	630	0	0
Office of International Cooperation & Development	0	0	0	0	287	0	0	287	0	0
Department of Defense, total	3,300	179	3,121	0	16,915	284	236	0	14,720	1,675
Department of the Army	1,242	0	1,242	0	5,801	0	31	0	5,770	0
Department of the Navy	1,173	179	994	0	1,161	284	135	0	742	0
Department of the Air Force	885	0	885	0	1,771	0	70	0	26	1,675
Defense agencies	0	0	0	0	8,182	0	0	0	8,182	0
Department of Energy	0	0	0	0	53,255	554	100	50	52,061	490
Dept of Health & Human Svcs, total	109,543	45,030	30,981	33,532	1,451,833	716,124	268	6,515	692,697	36,229
Alcohol, Drug Abuse, & Mental Health Admin	77,026	45,030	30,981	1,015	196,802	107,863	135	403	80,510	7,891
Centers for Disease Control	0	0	0	0	33,604	0	0	0	33,604	0
Food & Drug Admin	0	0	0	0	16,185	8,279	0	6,112	0	1,794
Health Resources and Svcs Admin	0	0	0	0	5,231	0	0	0	5,231	0
Nat'l Institutes of Health	32,517	0	0	32,517	1,200,011	599,982	133	0	573,352	26,544
Other agencies:										
Nat'l Aeronautics & Space Admin	260	0	47	213	9,089	6,782	604	47	549	1,107
Nat'l Science Foundation	188	27	78	83	8,991	4,401	4,039	0	0	551

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-117. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	120,038	48,002	36,398	35,638	1,785,504	816,714	47,426	73,734	804,047	43,583
Departments:										
Department of Agriculture, total	0	0	0	0	148,539	43,549	36,460	66,869	1,661	0
Agricultural Research Svc	0	0	0	0	5,771	2,200	232	3,297	42	0
Cooperative State Research Svc	0	0	0	0	134,771	36,363	34,013	62,776	1,619	0
Federal Grain Inspection Svc	0	0	0	0	356	0	0	356	0	0
Forest Svc	0	0	0	0	7,201	4,986	2,215	0	0	0
Human Nutrition Information Svc	0	0	0	0	200	0	0	200	0	0
Office of International Cooperation & Development	0	0	0	0	240	0	0	240	0	0
Department of Defense, total	3,780	207	3,573	0	72,137	327	5,540	0	64,082	2,188
Department of the Army	1,271	0	1,271	0	5,508	0	24	0	5,484	0
Department of the Navy	1,352	207	1,145	0	1,337	327	155	0	855	0
Department of the Air Force	1,157	0	1,157	0	2,313	0	91	0	34	2,188
Defense agencies	0	0	0	0	16,500	0	5,270	0	11,230	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	46,479	0	0	0	46,479	0
Department of Energy	0	0	0	0	11,630	477	100	50	9,743	1,260
Dept of Health & Human Svcs, total	115,737	47,760	32,673	35,304	1,533,878	760,711	275	6,764	727,974	38,154
Alcohol, Drug Abuse, & Mental Health Admin	81,507	47,760	32,673	1,074	208,276	113,799	135	403	85,593	8,346
Centers for Disease Control	0	0	0	0	33,604	0	0	0	33,604	0
Food & Drug Admin	0	0	0	0	16,842	8,615	0	6,361	0	1,866
Health Resources and Svcs Admin	0	0	0	0	5,231	0	0	0	5,231	0
Nat'l Institutes of Health	34,230	0	0	34,230	1,269,925	638,297	140	0	603,546	27,942
Other agencies:										
Nat'l Aeronautics & Space Admin	278	0	51	227	9,707	7,244	645	51	587	1,180
Nat'l Science Foundation	243	35	101	107	9,613	4,406	4,406	0	0	801

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-118. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	170,390	7,182	39,704	119,753	3,751	35,831	8,024	12,934	1,740	13,133
Departments:										
Department of Agriculture, total	11,601	0	11,297	304	0	1,670	1,243	427	0	0
Agricultural Research Svc	664	0	360	304	0	527	445	82	0	0
Cooperative State Research Svc	10,937	0	10,937	0	0	524	524	0	0	0
Forest Svc	0	0	0	0	0	619	274	345	0	0
Department of Defense, total	16,844	0	2,537	13,703	604	10,232	2,395	5,934	953	950
Department of the Army	1,169	0	935	234	0	1,696	702	44	0	950
Department of the Navy	10,136	0	942	8,971	223	1,319	249	117	953	0
Department of the Air Force	2,392	0	660	1,642	90	1,656	1,435	221	0	0
Defense agencies	3,147	0	0	2,856	291	5,561	9	5,552	0	0
Department of Energy	70,839	0	6,971	62,618	1,250	6,632	25	5,775	0	832
Dept of Health & Human Svcs, total	15,541	0	14,482	1,059	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	1,052	0	1,052	0	0	0	0	0	0	0
Nat'l Institutes of Health	14,489	0	13,430	1,059	0	0	0	0	0	0
Other agencies:										
Nat'l Aeronautics & Space Admin	45,150	7,117	105	36,670	1,258	14,940	3,834	30	0	11,076
Nat'l Science Foundation	10,415	65	4,312	5,399	639	2,357	527	768	787	275

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-119. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	196,777	8,729	40,361	142,623	5,064	40,807	8,920	12,328	1,641	17,918
Departments:										
Department of Agriculture, total	12,440	0	12,135	305	0	1,613	1,113	500	0	0
Agricultural Research Svc	667	0	362	305	0	530	329	201	0	0
Cooperative State Research Svc	11,773	0	11,773	0	0	545	545	0	0	0
Forest Svc	0	0	0	0	0	538	239	299	0	0
Department of Defense, total	17,270	0	2,507	14,286	477	13,414	2,838	6,753	994	2,829
Department of the Army	881	0	856	25	0	4,008	1,123	54	0	2,829
Department of the Navy	10,574	0	982	9,360	232	1,377	261	122	994	0
Department of the Air Force	2,423	0	669	1,663	91	1,678	1,454	224	0	0
Defense agencies	3,392	0	0	3,238	154	6,353	0	6,353	0	0
Department of Energy	77,240	0	4,460	70,955	1,825	4,521	25	3,687	0	809
Dept of Health & Human Svcs, total	22,709	0	15,192	7,517	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	1,073	0	1,073	0	0	0	0	0	0	0
Nat'l Institutes of Health	21,636	0	14,119	7,517	0	0	0	0	0	0
Other agencies:										
Nat'l Aeronautics & Space Admin	53,461	8,427	124	43,420	1,490	17,690	4,540	36	0	13,114
Nat'l Science Foundation	13,657	302	5,943	6,140	1,272	3,569	404	1,352	847	1,166

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-120. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c
Total, all agencies	196,196	9,534	39,817	138,981	7,864	36,401	9,295	6,744	1,948	18,414
Departments:										
Department of Agriculture, total	10,155	0	9,838	317	0	1,640	1,221	419	0	0
Agricultural Research Svc	691	0	374	317	0	547	439	108	0	0
Cooperative State Research Svc	9,464	0	9,464	0	0	533	533	0	0	0
Forest Svc	0	0	0	0	0	560	249	311	0	0
Department of Defense, total	17,934	0	2,925	14,496	513	7,039	2,724	1,950	1,145	1,220
Department of the Army	1,096	0	919	177	0	1,796	525	51	0	1,220
Department of the Navy	12,188	0	1,132	10,788	268	1,586	300	141	1,145	0
Department of the Air Force	3,166	0	874	2,173	119	2,192	1,899	293	0	0
Defense agencies	1,484	0	0	1,358	126	1,465	0	1,465	0	0
Department of Energy	76,911	0	3,332	69,229	4,350	4,271	25	2,749	0	1,497
Dept of Health & Human Svcs, total	17,175	0	15,996	1,179	0	0	0	0	0	0
Alcohol, Drug Abuse, & Mental Health Admin	1,134	0	1,134	0	0	0	0	0	0	0
Nat'l Institutes of Health	16,041	0	14,862	1,179	0	0	0	0	0	0
Other agencies:										
Nat'l Aeronautics & Space Admin	57,098	9,000	133	46,374	1,591	18,894	4,849	38	0	14,007
Nat'l Science Foundation	16,923	534	7,593	7,386	1,410	4,557	476	1,588	803	1,690

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-121. Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	273,062	16,429	8,583	32,564	12,731	44,386	15,476	66,821	76,072
Departments:									
Department of Agriculture, total	14,371	0	0	772	360	150	120	0	12,969
Agricultural Research Svc	1,402	0	0	772	360	150	120	0	0
Cooperative State Research Svc	12,969	0	0	0	0	0	0	0	12,969
Department of Defense, total	111,150	7,470	5,955	1,825	4,676	28,662	7,268	51,976	3,318
Department of the Army	17,035	698	331	1,106	3,485	6,311	1,760	674	2,670
Department of the Navy	22,790	569	3,574	569	1,058	8,162	4,850	3,860	148
Department of the Air Force	16,791	6,203	2,050	150	133	6,461	658	853	283
Defense agencies	54,534	0	0	0	0	7,728	0	46,589	217
Department of Energy	44,191	0	0	19,326	3,070	2,388	67	747	18,593
Dept of Health & Human Svcs, total	11,840	0	0	0	0	0	0	0	11,840
Nat'l Institutes of Health	11,840	0	0	0	0	0	0	0	11,840
Other agencies:									
Nat'l Aeronautics & Space Admin	41,829	8,815	2,628	40	0	2,486	2,122	10,439	15,299
Nat'l Science Foundation	49,661	144	0	10,601	4,625	10,700	5,899	3,659	14,053

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-122. Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	277,435	16,989	9,294	26,543	12,753	44,997	16,099	55,180	95,580
Departments:									
Department of Agriculture, total	15,483	0	0	749	446	115	102	0	14,071
Agricultural Research Svc	1,412	0	0	749	446	115	102	0	0
Cooperative State Research Svc	14,071	0	0	0	0	0	0	0	14,071
Department of Defense, total	104,235	6,395	6,182	1,674	3,969	27,458	7,182	38,508	12,867
Department of the Army	11,056	639	325	920	2,715	3,876	1,384	51	1,146
Department of the Navy	23,778	603	3,781	603	1,119	8,298	5,132	4,085	157
Department of the Air Force	15,877	5,153	2,076	151	135	6,544	666	865	287
Defense agencies	53,524	0	0	0	0	8,740	0	33,507	11,277
Department of Energy	41,244	0	0	12,339	3,408	2,613	69	497	22,318
Dept of Health & Human Svcs, total	12,452	0	0	0	0	0	0	0	12,452
Nat'l Institutes of Health	12,452	0	0	0	0	0	0	0	12,452
Other agencies:									
Nat'l Aeronautics & Space Admin	49,529	10,438	3,112	47	0	2,944	2,513	12,361	18,114
Nat'l Science Foundation	54,492	156	0	11,734	4,930	11,867	6,233	3,814	15,758

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-123. Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	378,318	20,554	10,607	25,702	15,604	48,060	18,736	47,467	191,588
Departments:									
Department of Agriculture, total	12,035	0	0	912	398	98	63	0	10,564
Agricultural Research Svc	1,471	0	0	912	398	98	63	0	0
Cooperative State Research Svc	10,564	0	0	0	0	0	0	0	10,564
Department of Defense, total	193,713	9,218	7,284	1,479	5,408	27,342	8,407	29,297	105,278
Department of the Army	12,591	645	275	596	3,959	3,535	1,704	249	1,628
Department of the Navy	27,405	685	4,297	685	1,272	9,813	5,832	4,643	178
Department of the Air Force	21,895	7,888	2,712	198	177	8,546	871	1,129	374
Defense agencies	131,822	0	0	0	0	5,448	0	23,276	103,098
Department of Energy	40,855	0	0	9,201	3,836	2,997	72	387	24,362
Dept of Health & Human Svcs, total	13,108	0	0	0	0	0	0	0	13,108
Nat'l Institutes of Health	13,108	0	0	0	0	0	0	0	13,108
Other agencies:									
Nat'l Aeronautics & Space Admin	52,898	11,148	3,323	51	0	3,144	2,684	13,201	19,347
Nat'l Science Foundation	65,709	188	0	14,059	5,962	14,479	7,510	4,582	18,929

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-124. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1991

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	103,569	4,589	93,688	5,292	141,523	1,066	29,997	1,624	75,433	33,403
Departments:										
Department of Agriculture, total	1,013	612	401	0	29,208	0	24,663	0	4,545	0
Agricultural Cooperative Svc	0	0	0	0	2	0	2	0	0	0
Agricultural Research Svc	446	45	401	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	26,606	0	22,061	0	4,545	0
Economic Research Svc	0	0	0	0	1,512	0	1,512	0	0	0
Forest Svc	304	304	0	0	1,088	0	1,088	0	0	0
Nat'l Agricultural Statistics Svc	263	263	0	0	0	0	0	0	0	0
Department of Defense, total	91,506	347	86,309	4,850	90	0	54	0	36	0
Department of the Army	2,155	16	1,885	254	90	0	54	0	36	0
Department of the Navy	1,311	37	1,208	66	0	0	0	0	0	0
Department of the Air Force	1,380	163	1,097	120	0	0	0	0	0	0
Defense agencies	86,660	131	82,119	4,410	0	0	0	0	0	0
Dept of Health & Human Svcs, total	2,440	2,440	0	0	107,148	383	3,898	1,157	69,802	31,908
Admin on Aging 1/	0	0	0	0	882	0	0	0	0	882
Admin for Children and Families 1/	0	0	0	0	2,265	0	0	0	0	2,265
Agency for Health Care Policy & Research 2/	0	0	0	0	48,392	0	0	0	48,392	0
Alcohol, Drug Abuse, & Mental Health Admin	776	776	0	0	30,089	383	790	1,157	20,735	7,024
Health Care Financing Admin	0	0	0	0	10,700	0	0	0	0	10,700
Nat'l Institutes of Health	1,664	1,664	0	0	9,568	0	0	0	0	9,568
Office of the Secretary	0	0	0	0	3,783	0	3,108	0	675	0
Social Security Admin	0	0	0	0	1,469	0	0	0	0	1,469
Other agencies:										
Nat'l Aeronautics & Space Admin	2,096	0	1,654	442	36	0	36	0	0	0
Nat'l Science Foundation	6,514	1,190	5,324	0	5,041	683	1,346	467	1,050	1,495

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-125. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1992 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	165,253	5,246	156,205	3,802	143,040	1,297	29,051	1,816	76,358	34,518
Departments:										
Department of Agriculture, total	896	550	346	0	30,899	0	26,162	0	4,737	0
Agricultural Cooperative Svc	0	0	0	0	220	0	220	0	0	0
Agricultural Research Svc	446	100	346	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	28,272	0	23,535	0	4,737	0
Economic Research Svc	0	0	0	0	1,462	0	1,462	0	0	0
Forest Svc	265	265	0	0	945	0	945	0	0	0
Nat'l Agricultural Statistics Svc	185	185	0	0	0	0	0	0	0	0
Department of Defense, total	151,146	365	148,002	2,779	65	0	39	0	26	0
Department of the Army	2,291	25	2,266	0	65	0	39	0	26	0
Department of the Navy	1,368	38	1,261	69	0	0	0	0	0	0
Department of the Air Force	1,398	165	1,112	121	0	0	0	0	0	0
Defense agencies	146,089	137	143,363	2,589	0	0	0	0	0	0
Dept of Health & Human Svcs, total	2,589	2,589	0	0	105,597	393	825	1,276	70,763	32,340
Admin on Aging 1/	0	0	0	0	1,400	0	0	0	0	1,400
Admin for Children and Families 1/	0	0	0	0	2,080	0	0	0	0	2,080
Agency for Health Care Policy & Research 2/	0	0	0	0	47,670	0	0	0	47,670	0
Alcohol, Drug Abuse, & Mental Health Admin	856	856	0	0	31,799	393	825	1,276	22,055	7,250
Health Care Financing Admin	0	0	0	0	10,496	0	0	0	0	10,496
Nat'l Institutes of Health	1,733	1,733	0	0	10,066	0	0	0	0	10,066
Office of the Secretary	0	0	0	0	1,038	0	0	0	1,038	0
Social Security Admin	0	0	0	0	1,048	0	0	0	0	1,048
Other agencies:										
Nat'l Aeronautics & Space Admin	2,482	0	1,959	523	43	0	43	0	0	0
Nat'l Science Foundation	8,140	1,742	5,898	500	6,436	904	1,982	540	832	2,178

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-126. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1993 (estimates)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	170,276	5,630	157,204	7,442	129,290	1,574	24,621	1,902	65,547	35,646
Departments:										
Department of Agriculture, total	909	566	343	0	25,195	0	20,629	0	4,566	0
Agricultural Research Svc	448	105	343	0	0	0	0	0	0	0
Cooperative State Research Svc	0	0	0	0	22,748	0	18,182	0	4,566	0
Economic Research Svc	0	0	0	0	1,462	0	1,462	0	0	0
Forest Svc	276	276	0	0	985	0	985	0	0	0
Nat'l Agricultural Statistics Svc	185	185	0	0	0	0	0	0	0	0
Department of Defense, total	153,391	354	147,654	5,383	67	0	40	0	27	0
Department of the Army	2,284	24	2,260	0	67	0	40	0	27	0
Department of the Navy	1,577	44	1,453	80	0	0	0	0	0	0
Department of the Air Force	1,826	216	1,452	158	0	0	0	0	0	0
Defense agencies	147,704	70	142,489	5,145	0	0	0	0	0	0
Dept of Health & Human Svcs, total	2,750	2,750	0	0	95,546	400	1,350	1,461	59,580	32,755
Admin on Aging 1/	0	0	0	0	1,200	0	0	0	0	1,200
Admin for Children and Families 1/	0	0	0	0	2,099	0	0	0	0	2,099
Agency for Health Care Policy & Research 2/	0	0	0	0	35,339	0	0	0	35,339	0
Alcohol, Drug Abuse, & Mental Health Admin	912	912	0	0	33,623	400	850	1,361	23,341	7,671
Health Care Financing Admin	0	0	0	0	10,584	0	0	0	0	10,584
Nat'l Institutes of Health	1,838	1,838	0	0	10,596	0	0	0	0	10,596
Office of the Secretary	0	0	0	0	1,500	0	500	100	900	0
Social Security Admin	0	0	0	0	605	0	0	0	0	605
Other agencies:										
Nat'l Aeronautics & Space Admin	2,651	0	2,092	559	46	0	46	0	0	0
Nat'l Science Foundation	10,575	1,960	7,115	1,500	8,436	1,174	2,556	441	1,374	2,891

1/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1993.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-127. Federal obligations for research and development to foreign performers, by region, country, and agency: fiscal year 1991

[Dollars in thousands]

Region and country	Total	Department of Agriculture	Department of Defense	Department of Energy	Department of Health and Human Services	Agency for Internat'l Develop-ment	National Science Foundation	Other
Total	263,897	6,220	128,993	2,183	47,925	55,608	7,181	15,787
Europe, total	95,642	2,973	71,357	1,739	11,060	0	3,429	5,084
Austria	695	0	0	10	0	0	685	0
Belgium	979	0	77	0	902	0	0	0
Denmark	405	0	81	0	324	0	0	0
Finland	1,827	0	0	0	1,827	0	0	0
France	4,028	1,457	1,091	0	595	0	120	765
Germany	13,744	9	12,844	17	68	0	0	806
Ireland	102	0	37	0	0	0	65	0
Italy	2,264	946	71	19	784	0	0	444
Netherlands	1,822	358	858	0	192	0	0	414
Norway	4,022	0	2,840	0	275	0	0	907
Poland	159	159	0	0	0	0	0	0
Portugal	188	0	50	0	136	0	0	2
Spain	42	0	0	0	42	0	0	0
Sweden	2,503	0	455	90	1,958	0	0	0
Switzerland	1,321	0	131	250	641	0	0	299
United Kingdom, total	61,308	3	52,809	1,353	3,258	0	2,539	1,346
England	55,575	0	51,811	1,353	1,277	0	0	1,134
Scotland	4,636	0	503	0	1,981	0	2,152	0
Bermuda	482	0	95	0	0	0	387	0
Other United Kingdom	615	3	400	0	0	0	0	212
Yugoslavia	200	41	0	0	58	0	0	101
Other Europe	33	0	13	0	0	0	20	0
Asia, total	9,743	1,490	1,638	0	2,103	249	3,542	721
Hong Kong	173	0	0	0	173	0	0	0
India	3,714	0	0	0	172	0	3,542	0
Japan	2,221	0	1,500	0	0	0	0	721
South Korea	324	186	138	0	0	0	0	0
Pakistan	7	7	0	0	0	0	0	0
Philippines	719	0	0	0	470	249	0	0
Taiwan	1,297	1,297	0	0	0	0	0	0
Thailand	188	0	0	0	188	0	0	0
Other Asia	1,100	0	0	0	1,100	0	0	0
Near East, total	38,800	0	35,215	0	3,514	0	0	71
Greece	90	0	90	0	0	0	0	0
Israel	38,660	0	35,125	0	3,464	0	0	71
Lebanon	50	0	0	0	50	0	0	0
Africa, total	673	0	628	0	45	0	0	0
Kenya	618	0	618	0	0	0	0	0
Other Africa	55	0	10	0	45	0	0	0
Latin America, total	4,255	1,742	25	0	1,556	511	0	421
Argentina	710	534	0	0	176	0	0	0
Brazil	327	0	0	0	327	0	0	0
Chile	632	0	0	0	212	0	0	420
Colombia	384	0	0	0	384	0	0	0
Costa Rica	175	175	0	0	0	0	0	0
El Salvador	25	0	25	0	0	0	0	0
Mexico	1,037	913	0	0	124	0	0	0
Peru	423	0	0	0	0	423	0	0
Venezuela	96	96	0	0	0	0	0	0
Other Latin America	446	24	0	0	333	88	0	1
Australia	12,820	0	7,932	316	3,313	0	0	1,259
Canada	39,378	0	11,400	128	19,409	0	210	8,231
New Zealand	672	15	0	0	657	0	0	0
International Organizations	61,914	0	798	0	6,268	54,848	0	0

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-128. Federal obligations for basic research to foreign performers, by region, country, and agency: fiscal year 1991

[Dollars in thousands]

Region and country	Total	Department of Agriculture	Department of Defense	Department of Health and Human Services	National Science Foundation	National Aeronautics and Space Admin	Other
Total	49,061	3,542	8,717	25,353	6,149	3,771	1,529
Europe, total	15,501	1,583	4,136	5,325	3,188	655	614
Austria	455	0	0	0	445	0	10
Belgium	442	0	77	365	0	0	0
Denmark	174	0	15	159	0	0	0
Finland	1,024	0	0	1,024	0	0	0
France	1,435	758	247	226	119	85	0
Germany	471	9	306	43	0	96	17
Ireland	102	0	37	0	65	0	0
Italy	1,057	492	71	471	0	14	9
Netherlands	594	186	187	148	0	73	0
Norway	320	0	185	135	0	0	0
Poland	107	107	0	0	0	0	0
Portugal	166	0	50	116	0	0	0
Spain	41	0	0	41	0	0	0
Sweden	1,082	0	0	992	0	0	90
Switzerland	206	0	86	0	0	70	50
United Kingdom, total	7,738	3	2,862	1,579	2,539	317	438
England	3,218	0	2,264	237	0	279	438
Scotland	3,997	0	503	1,342	2,152	0	0
Bermuda	482	0	95	0	387	0	0
Other United Kingdom	41	3	0	0	0	38	0
Yugoslavia	54	28	0	26	0	0	0
Other Europe	33	0	13	0	20	0	0
Asia, total	4,692	978	0	862	2,764	88	0
Hong Kong	38	0	0	38	0	0	0
India	2,764	0	0	0	2,764	0	0
Japan	88	0	0	0	0	88	0
South Korea	97	97	0	0	0	0	0
Pakistan	5	5	0	0	0	0	0
Philippines	150	0	0	150	0	0	0
Taiwan	876	876	0	0	0	0	0
Thailand	119	0	0	119	0	0	0
Other Asia	555	0	0	555	0	0	0
Near East, total	3,525	0	1,872	1,641	0	12	0
Greece	90	0	90	0	0	0	0
Israel	3,435	0	1,782	1,641	0	12	0
Africa	22	0	0	22	0	0	0
Latin America, total	2,298	966	25	762	0	122	423
Argentina	402	278	0	124	0	0	0
Brazil	105	0	0	105	0	0	0
Chile	306	0	0	184	0	122	0
Colombia	123	0	0	123	0	0	0
Costa Rica	118	118	0	0	0	0	0
El Salvador	25	0	25	0	0	0	0
Mexico	566	474	0	92	0	0	0
Peru	423	0	0	0	0	0	423
Venezuela	96	96	0	0	0	0	0
Other Latin America	134	0	0	134	0	0	0
Australia	2,707	0	270	1,866	0	207	364
Canada	16,547	0	2,414	11,121	197	2,687	128
New Zealand	361	15	0	346	0	0	0
International Organizations	3,408	0	0	3,408	0	0	0

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-129. Federal obligations for research and development to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Agency and subdivision	1991		Estimates			
			1992		1993	
	Total	Special foreign currency program	Total	Special foreign currency program	Total	Special foreign currency program
Total, all agencies	263,897	6,692	339,058	2,000	336,044	225
Departments:						
Department of Agriculture, total	6,220	1,679	3,661	0	3,666	0
Agricultural Research Service	4,394	0	3,550	0	3,550	0
Forest Service	147	0	111	0	116	0
Office of International Cooperation and Development	1,679	1,679	0	0	0	0
Department of Commerce, total	64	0	64	0	64	0
National Institute of Standards & Technology	6	0	6	0	6	0
National Oceanic & Atmospheric Administration	58	0	58	0	58	0
Department of Defense, total	128,993	3,085	192,110	0	185,233	0
Department of the Army	13,261	514	13,540	0	6,868	0
Department of the Navy	65,442	0	79,494	0	83,948	0
Department of the Air Force	2,571	2,571	2,531	0	2,989	0
Defense agencies	47,264	0	96,545	0	86,428	0
Test & Evaluation, Deputy Under Secretary Defense	455	0	0	0	0	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	5,200	0
Department of Education	100	0	100	0	100	0
Department of Energy	2,183	0	2,509	0	1,830	0
Department of Health and Human Services, total	47,925	1,928	55,684	2,000	58,821	225
Agency for Health Care Policy & Research 1/	100	0	100	0	0	0
Alcohol, Drug Abuse, & Mental Health Administration	6,802	0	8,407	0	8,871	0
Centers for Disease Control	172	172	200	200	225	225
Health Care Financing Administration	111	0	115	0	0	0
National Institutes of Health	40,595	1,756	46,812	1,800	49,670	0
Office of the Secretary	103	0	0	0	0	0
Social Security Administration	42	0	50	0	55	0
Department of the Interior, total	648	0	2,160	0	2,018	0
Geological Survey	90	0	49	0	0	0
Minerals Management Service	558	0	2,111	0	2,018	0
Department of Labor, total	10	0	0	0	0	0
Office of the Secretary	10	0	0	0	0	0
Department of State	8	0	0	0	0	0
Department of Transportation, total	725	0	1,052	0	1,420	0
Federal Highway Administration	130	0	352	0	420	0
National Highway Traffic Safety Administration	595	0	700	0	1,000	0
Other agencies:						
Agency for International Development	55,608	0	59,555	0	59,852	0
National Aeronautics and Space Administration	11,730	0	11,730	0	11,730	0
National Science Foundation	7,181	0	7,670	0	8,395	0
Nuclear Regulatory Commission	2,502	0	2,763	0	2,915	0

1/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-130. Federal obligations for basic research to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Agency and subdivision	1991		Estimates			
			1992		1993	
	Total	Special foreign currency program	Total	Special foreign currency program	Total	Special foreign currency program
Total, all agencies	49,061	4,137	51,557	1,170	55,486	0
Departments:						
Department of Agriculture, total	3,542	1,134	1,976	0	1,980	0
Agricultural Research Service	2,285	0	1,882	0	1,882	0
Forest Service	123	0	94	0	98	0
Office of International Cooperation and Development	1,134	1,134	0	0	0	0
Department of Commerce, total	3	0	3	0	3	0
National Institute of Standards & Technology	3	0	3	0	3	0
Department of Defense, total	8,717	1,861	8,653	0	10,577	0
Department of the Army	2,519	0	2,323	0	2,316	0
Department of the Navy	4,337	0	4,475	0	4,622	0
Department of the Air Force	1,861	1,861	1,731	0	2,139	0
Defense agencies	0	0	124	0	0	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	1,500	0
Department of Energy	1,040	0	1,242	0	934	0
Department of Health and Human Services, total	25,353	1,142	29,199	1,170	31,326	0
Alcohol, Drug Abuse, & Mental Health Administration	1,346	0	1,391	0	1,420	0
National Institutes of Health	24,007	1,142	27,808	1,170	29,906	0
Department of the Interior, total	63	0	33	0	0	0
Geological Survey	63	0	33	0	0	0
Other agencies:						
Agency for International Development	423	0	405	0	0	0
National Aeronautics and Space Administration	3,771	0	3,670	0	3,599	0
National Science Foundation	6,149	0	6,376	0	7,087	0

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-131. Federal obligations for applied research to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Agency and subdivision	1991		Estimates			
			1992		1993	
	Total	Special foreign currency program	Total	Special foreign currency program	Total	Special foreign currency program
Total, all agencies	94,292	1,874	91,245	830	91,972	225
Departments:						
Department of Agriculture, total	2,203	378	1,437	0	1,438	0
Agricultural Research Service	1,801	0	1,420	0	1,420	0
Forest Service	24	0	17	0	18	0
Office of International Cooperation and Development	378	378	0	0	0	0
Department of Commerce, total	61	0	61	0	61	0
National Institute of Standards & Technology	3	0	3	0	3	0
National Oceanic & Atmospheric Administration	58	0	58	0	58	0
Department of Defense, total	10,889	710	7,164	0	5,947	0
Department of the Army	6,822	0	1,745	0	1,917	0
Department of the Navy	370	0	383	0	395	0
Department of the Air Force	710	710	800	0	850	0
Defense agencies	2,987	0	4,236	0	685	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	2,100	0
Department of Education	100	0	100	0	100	0
Department of Energy	604	0	677	0	442	0
Department of Health and Human Services, total	18,246	786	18,937	830	19,697	225
Agency for Health Care Policy & Research 1/	100	0	100	0	0	0
Alcohol, Drug Abuse, & Mental Health Administration	5,456	0	4,472	0	4,740	0
Centers for Disease Control	172	172	200	200	225	225
Health Care Financing Administration	111	0	115	0	0	0
National Institutes of Health	12,262	614	14,000	630	14,677	0
Office of the Secretary	103	0	0	0	0	0
Social Security Administration	42	0	50	0	55	0
Department of the Interior, total	585	0	2,127	0	2,018	0
Geological Survey	27	0	16	0	0	0
Minerals Management Service	558	0	2,111	0	2,018	0
Department of State	8	0	0	0	0	0
Department of Transportation, total	725	0	1,052	0	1,420	0
Federal Highway Administration	130	0	352	0	420	0
National Highway Traffic Safety Administration	595	0	700	0	1,000	0
Other agencies:						
Agency for International Development	53,864	0	52,107	0	52,857	0
National Aeronautics and Space Administration	3,473	0	3,526	0	3,749	0
National Science Foundation	1,032	0	1,294	0	1,328	0
Nuclear Regulatory Commission	2,502	0	2,763	0	2,915	0

1/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-132. Federal obligations for development to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1991, 1992, and 1993

[Dollars in thousands]

Agency and subdivision	1991		Estimates			
			1992		1993	
	Total	Special foreign currency program	Total	Special foreign currency program	Total	Special foreign currency program
Total, all agencies	120,544	681	196,256	0	188,586	0
Departments:						
Department of Agriculture, total	475	167	248	0	248	0
Agricultural Research Service	308	0	248	0	248	0
Office of International Cooperation and Development	167	167	0	0	0	0
Department of Defense, total	109,387	514	176,293	0	168,709	0
Department of the Army	3,920	514	9,472	0	2,435	0
Department of the Navy	60,735	0	74,636	0	78,931	0
Defense agencies	44,277	0	92,185	0	85,743	0
Test & Evaluation, Deputy Under Secretary Defense	455	0	0	0	0	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	1,600	0
Department of Energy	539	0	590	0	454	0
Department of Health and Human Services, total	4,326	0	7,548	0	7,798	0
Alcohol, Drug Abuse, & Mental Health Administration	0	0	2,544	0	2,711	0
National Institutes of Health	4,326	0	5,004	0	5,087	0
Department of Labor, total	10	0	0	0	0	0
Office of the Secretary	10	0	0	0	0	0
Other agencies:						
Agency for International Development	1,321	0	7,043	0	6,995	0
National Aeronautics and Space Administration	4,486	0	4,534	0	4,382	0

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-133. Federal obligations for research and development and for R&D plant, by State: fiscal year 1991

[Dollars in thousands]

State	Research, development, and R&D plant	Research and development	R&D plant
Total	63,499,890	59,865,395	3,634,495
Alabama	2,028,196	1,863,182	165,014
Alaska	102,940	102,740	200
Arizona	533,117	516,763	16,354
Arkansas	91,173	85,866	5,307
California	15,120,461	14,488,289	632,172
Colorado	2,744,911	2,694,164	50,747
Connecticut	675,287	672,726	2,561
Delaware	41,830	41,782	48
District of Columbia	1,959,838	1,943,712	16,126
Florida	2,660,941	2,181,144	479,797
Georgia	570,418	466,521	103,897
Hawaii	121,792	112,594	9,198
Idaho	325,095	279,091	46,004
Illinois	1,279,105	959,374	319,731
Indiana	383,684	378,703	4,981
Iowa	235,887	209,833	26,054
Kansas	88,805	83,647	5,158
Kentucky	124,055	122,406	1,649
Louisiana	189,683	163,562	26,121
Maine	57,786	57,093	693
Maryland	5,815,207	5,569,029	246,178
Massachusetts	3,175,822	3,146,842	28,980
Michigan	775,589	772,631	2,958
Minnesota	457,843	455,713	2,130
Mississippi	281,385	230,551	50,834
Missouri	594,332	587,882	6,450
Montana	47,390	45,792	1,598
Nebraska	82,128	76,143	5,985
Nevada	553,661	495,981	57,680
New Hampshire	196,572	196,262	310
New Jersey	1,728,026	1,698,255	29,771
New Mexico	2,192,021	2,018,739	173,282
New York	3,193,763	3,086,577	107,186
North Carolina	681,218	673,840	7,378
North Dakota	52,722	43,733	8,989
Ohio	1,997,567	1,729,901	267,666
Oklahoma	134,796	131,536	3,260
Oregon	219,796	216,459	3,337
Pennsylvania	2,215,253	2,125,798	89,455
Rhode Island	448,097	433,843	14,254
South Carolina	282,302	250,369	31,933
South Dakota	24,485	22,516	1,969
Tennessee	791,168	732,230	58,938
Texas	2,521,229	2,321,396	199,833
Utah	432,573	429,097	3,476
Vermont	56,862	56,096	766
Virginia	3,078,065	2,908,999	169,066
Washington	1,275,553	1,241,102	34,451
West Virginia	267,356	177,928	89,428
Wisconsin	307,508	294,511	12,997
Wyoming	30,441	29,763	678
Outlying areas	232,712	221,727	10,985
Offices abroad	21,444	20,962	482

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-134. Federal obligations for research and development, by State and performer: fiscal year 1991

[Dollars in thousands]

State (in order of total Federal R&D obligations)	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit institu-tions	FFRDCs admin by nonprofit institu-tions	State and local govts
Total	59,865,395	14,753,121	26,337,081	2,027,500	9,990,860	3,585,000	2,302,069	665,894	203,870
California	14,488,289	1,885,275	8,722,782	32,400	1,483,715	1,875,200	326,127	146,850	15,940
Maryland	5,569,029	3,432,212	1,434,522	14,444	531,094	0	149,107	1,642	6,008
Massachusetts	3,146,842	277,787	1,362,977	0	687,884	198,881	433,698	176,086	9,529
New York	3,086,577	173,988	1,115,385	317,818	1,035,594	209,961	169,570	270	63,991
Virginia	2,908,999	1,107,423	1,420,506	5,806	164,419	23,366	42,826	139,594	5,059
Colorado	2,694,164	275,312	2,083,902	0	175,587	49,316	33,718	72,558	3,771
Texas	2,321,396	405,267	1,166,412	0	486,437	2,548	257,134	0	3,598
Florida	2,181,144	657,605	1,299,289	0	214,162	0	5,307	0	4,781
Pennsylvania	2,125,798	315,003	596,651	334,486	715,805	22,824	137,865	153	3,011
New Mexico	2,018,739	392,967	227,543	705,020	73,853	601,280	7,241	7,438	3,397
District of Columbia	1,943,712	1,432,998	257,427	0	86,434	0	145,274	0	21,579
Alabama	1,863,182	700,617	970,069	0	154,815	0	36,212	0	1,469
Ohio	1,729,901	688,926	724,035	0	258,066	0	56,590	0	2,284
New Jersey	1,696,255	512,928	933,613	0	148,685	87,843	11,528	105	3,553
Washington	1,241,102	132,503	630,250	13,722	266,317	0	72,156	120,334	5,820
Illinois	959,374	68,151	120,538	0	374,120	345,203	47,020	0	4,342
Michigan	772,631	91,833	330,927	0	306,587	0	41,543	0	1,741
Tennessee	732,230	123,708	138,875	278,756	146,876	15,713	27,515	100	687
North Carolina	673,840	150,956	164,317	0	329,383	0	27,279	0	1,905
Connecticut	672,726	46,602	407,499	0	200,421	0	14,568	0	3,636
Missouri	587,882	71,220	311,595	0	181,446	0	22,217	0	1,404
Arizona	516,763	132,341	220,526	0	125,776	25,740	10,840	0	1,540
Nevada	495,981	108,614	370,283	0	13,730	0	2,876	0	478
Georgia	466,521	121,008	168,575	0	168,887	0	5,834	0	2,217
Minnesota	455,713	40,468	212,108	0	154,798	0	45,733	0	2,606
Rhode Island	433,843	226,367	134,495	0	54,612	0	17,878	0	491
Utah	429,097	103,269	189,252	0	132,100	0	3,735	0	741
Indiana	378,703	92,036	130,002	0	151,562	0	4,247	0	856
Wisconsin	294,511	32,321	38,711	0	208,842	0	13,423	0	1,214
Idaho	279,091	36,666	2,248	157,609	15,268	65,625	777	0	898
South Carolina	250,369	13,955	3,178	167,439	54,443	0	10,285	0	1,069
Mississippi	230,551	157,156	28,037	0	40,026	0	3,841	0	1,491
Oregon	216,459	47,486	24,710	0	116,756	0	24,305	0	3,202
Iowa	209,833	26,977	26,953	0	126,011	25,989	3,316	0	587
New Hampshire	196,262	88,342	51,050	0	55,900	0	330	0	640
West Virginia	177,928	76,078	26,709	0	38,683	30,636	4,985	0	837
Louisiana	163,562	43,104	11,870	0	104,197	0	2,268	0	2,123
Oklahoma	131,536	40,970	38,567	0	32,186	0	18,425	0	1,388
Kentucky	122,406	62,279	9,983	0	46,445	0	2,348	0	1,351
Hawaii	112,594	44,537	10,465	0	46,004	0	10,953	0	635
Alaska	102,740	58,705	10,108	0	30,606	0	1,954	0	1,367
Arkansas	85,866	35,180	21,716	0	26,517	0	2,010	0	443
Kansas	83,647	11,961	17,803	0	46,865	0	5,219	0	1,799
Nebraska	76,143	21,920	11,189	0	36,329	0	6,125	0	580
Maine	57,093	13,862	16,422	0	8,971	0	16,456	0	1,382
Vermont	56,096	5,122	10,283	0	35,234	0	4,543	0	914
Montana	45,792	26,133	2,360	0	14,635	0	1,340	0	1,324
North Dakota	43,733	23,938	837	0	16,845	0	1,231	0	882
Delaware	41,782	8,605	8,941	0	20,926	0	2,883	0	427
Wyoming	29,763	9,339	1,775	0	11,843	0	6,689	0	117
South Dakota	22,516	9,470	3,129	0	7,324	0	1,868	0	725
Outlying areas	221,727	74,924	112,840	0	26,509	4,875	527	764	1,288
Offices abroad	20,962	16,707	2,842	0	330	0	330	0	753

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1991.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-134A. Percentage distribution of Federal obligations for research and development to each performer, by State: fiscal year 1991

State (in order of total Federal R&D obligations)	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
California	24.2	12.8	33.1	1.6	14.9	52.3	14.2	22.1	7.8
Maryland	9.3	23.3	5.4	.7	5.3	.0	6.5	.2	2.9
Massachusetts	5.3	1.9	5.2	.0	6.9	5.5	18.8	26.4	4.7
New York	5.2	1.2	4.2	15.7	10.4	5.9	7.4	*	31.4
Virginia	4.9	7.5	5.4	.3	1.6	.7	1.9	21.0	2.5
Colorado	4.5	1.9	7.9	.0	1.8	1.4	1.5	10.9	1.8
Texas	3.9	2.7	4.4	.0	4.9	.1	11.2	.0	1.8
Florida	3.6	4.5	4.9	.0	2.1	.0	.2	.0	2.3
Pennsylvania	3.6	2.1	2.3	16.5	7.2	.6	6.0	*	1.5
New Mexico	3.4	2.7	.9	34.8	.7	16.8	.3	1.1	1.7
District of Columbia	3.2	9.7	1.0	.0	.9	.0	6.3	.0	10.6
Alabama	3.1	4.7	3.7	.0	1.5	.0	1.6	.0	.7
Ohio	2.9	4.7	2.7	.0	2.6	.0	2.5	.0	1.1
New Jersey	2.6	3.5	3.5	.0	1.5	2.5	.5	*	1.7
Washington	2.1	.9	2.4	.7	2.7	.0	3.1	18.1	2.9
Illinois	1.6	.5	.5	.0	3.7	9.6	2.0	.0	2.1
Michigan	1.3	.6	1.3	.0	3.1	.0	1.8	.0	.9
Tennessee	1.2	.8	.5	13.7	1.5	.4	1.2	*	.3
North Carolina	1.1	1.0	.6	.0	3.3	.0	1.2	.0	.9
Connecticut	1.1	.3	1.5	.0	2.0	.0	.6	.0	1.8
Missouri	1.0	.5	1.2	.0	1.8	.0	1.0	.0	.7
Arizona	.9	.9	.8	.0	1.3	.7	.5	.0	.8
Nevada	.8	.7	1.4	.0	.1	.0	.1	.0	.2
Georgia	.8	.8	.6	.0	1.7	.0	.3	.0	1.1
Minnesota	.8	.3	.8	.0	1.5	.0	2.0	.0	1.3
Rhode Island	.7	1.5	.5	.0	.5	.0	.8	.0	.2
Utah	.7	.7	.7	.0	1.3	.0	.2	.0	.4
Indiana	.6	.6	.5	.0	1.5	.0	.2	.0	.4
Wisconsin	.5	.2	.1	.0	2.1	.0	.6	.0	.6
Idaho	.5	.2	*	7.8	.2	1.8	*	.0	.4
South Carolina	.4	.1	*	8.3	.5	.0	.4	.0	.5
Mississippi	.4	1.1	.1	.0	.4	.0	.2	.0	.7
Oregon	.4	.3	.1	.0	1.2	.0	1.1	.0	1.6
Iowa	.4	.2	.1	.0	1.3	.7	.1	.0	.3
New Hampshire	.3	.6	.2	.0	.6	.0	*	.0	.3
West Virginia	.3	.5	.1	.0	.4	.9	.2	.0	.4
Louisiana	.3	.3	*	.0	1.0	.0	.1	.0	1.0
Oklahoma	.2	.3	.1	.0	.3	.0	.8	.0	.7
Kentucky	.2	.4	*	.0	.5	.0	.1	.0	.7
Hawaii	.2	.3	*	.0	.5	.0	.5	.0	.3
Alaska	.2	.4	*	.0	.3	.0	.1	.0	.7
Arkansas	.1	.2	.1	.0	.3	.0	.1	.0	.2
Kansas	.1	.1	.1	.0	.5	.0	.2	.0	.9
Nebraska	.1	.1	*	.0	.4	.0	.3	.0	.3
Maine	.1	.1	.1	.0	.1	.0	.7	.0	.7
Vermont	.1	*	*	.0	.4	.0	.2	.0	.4
Montana	.1	.2	*	.0	.1	.0	.1	.0	.6
North Dakota	.1	.2	*	.0	.2	.0	.1	.0	.4
Delaware	.1	.1	*	.0	.2	.0	.1	.0	.2
Wyoming	*	.1	*	.0	.1	.0	.3	.0	.1
South Dakota	*	.1	*	.0	.1	.0	.1	.0	.4
Outlying areas	.4	.5	.4	.0	.3	.1	*	.1	.6
Offices abroad	*	.1	*	.0	*	.0	*	.0	.4

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1991.

KEY: FFRDCs = Federally funded research and development centers
* = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-134B. Percentage distribution of Federal obligations for research and development to each State, by performer: fiscal year 1991

State (in order of total Federal R&D obligations)	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	100.0%	24.6%	44.0%	3.4%	16.7%	6.0%	3.8%	1.1%	.0.3%
California	100.0	13.0	60.2	.2	10.2	12.9	2.3	1.0	.1
Maryland	100.0	61.6	25.8	.3	9.5	.0	2.7	*	.1
Massachusetts	100.0	8.8	43.3	.0	21.9	6.3	13.8	5.6	.3
New York	100.0	5.6	36.1	10.3	33.6	6.8	5.5	*	2.1
Virginia	100.0	38.1	48.8	.2	5.7	.8	1.5	4.8	.2
Colorado	100.0	10.2	77.3	.0	6.5	1.8	1.3	2.7	.1
Texas	100.0	17.5	50.2	.0	21.0	.1	11.1	.0	.2
Florida	100.0	30.1	59.6	.0	9.8	.0	.2	.0	.2
Pennsylvania	100.0	14.8	28.1	15.7	33.7	1.1	6.5	*	.1
New Mexico	100.0	19.5	11.3	34.9	3.7	29.8	.4	.4	.2
District of Columbia	100.0	73.7	13.2	.0	4.4	.0	7.5	.0	1.1
Alabama	100.0	37.6	52.1	.0	8.3	.0	1.9	.0	.1
Ohio	100.0	39.8	41.9	.0	14.9	.0	3.3	.0	.1
New Jersey	100.0	30.2	55.0	.0	8.8	5.2	.7	*	.2
Washington	100.0	10.7	50.8	1.1	21.5	.0	5.8	9.7	.5
Illinois	100.0	7.1	12.6	.0	39.0	36.0	4.9	.0	.5
Michigan	100.0	11.9	42.8	.0	39.7	.0	5.4	.0	.2
Tennessee	100.0	16.9	19.0	38.1	20.1	2.1	3.8	*	.1
North Carolina	100.0	22.4	24.4	.0	48.9	.0	4.0	.0	.3
Connecticut	100.0	6.9	60.6	.0	29.8	.0	2.2	.0	.5
Missouri	100.0	12.1	53.0	.0	30.9	.0	3.8	.0	.2
Arizona	100.0	25.6	42.7	.0	24.3	5.0	2.1	.0	.3
Nevada	100.0	21.9	74.7	.0	2.8	.0	.6	.0	.1
Georgia	100.0	25.9	36.1	.0	36.2	.0	1.3	.0	.5
Minnesota	100.0	8.9	46.5	.0	34.0	.0	10.0	.0	.6
Rhode Island	100.0	52.2	31.0	.0	12.6	.0	4.1	.0	.1
Utah	100.0	24.1	44.1	.0	30.8	.0	.9	.0	.2
Indiana	100.0	24.3	34.3	.0	40.0	.0	1.1	.0	.2
Wisconsin	100.0	11.0	13.1	.0	70.9	.0	4.6	.0	.4
Idaho	100.0	13.1	.8	56.5	5.5	23.5	.3	.0	.3
South Carolina	100.0	5.6	1.3	66.9	21.7	.0	4.1	.0	.4
Mississippi	100.0	68.2	12.2	.0	17.4	.0	1.7	.0	.6
Oregon	100.0	21.9	11.4	.0	53.9	.0	11.2	.0	1.5
Iowa	100.0	12.9	12.8	.0	60.1	12.4	1.6	.0	.3
New Hampshire	100.0	45.0	26.0	.0	28.5	.0	.2	.0	.3
West Virginia	100.0	42.8	15.0	.0	21.7	17.2	2.8	.0	.5
Louisiana	100.0	26.4	7.3	.0	63.7	.0	1.4	.0	1.3
Oklahoma	100.0	31.1	29.3	.0	24.5	.0	14.0	.0	1.1
Kentucky	100.0	50.9	8.2	.0	37.9	.0	1.9	.0	1.1
Hawaii	100.0	39.6	9.3	.0	40.9	.0	9.7	.0	.6
Alaska	100.0	57.1	9.8	.0	29.8	.0	1.9	.0	1.3
Arkansas	100.0	41.0	25.3	.0	30.9	.0	2.3	.0	.5
Kansas	100.0	14.3	21.3	.0	56.0	.0	6.2	.0	2.2
Nebraska	100.0	28.8	14.7	.0	47.7	.0	8.0	.0	.8
Maine	100.0	24.3	28.8	.0	15.7	.0	28.8	.0	2.4
Vermont	100.0	9.1	18.3	.0	62.8	.0	8.1	.0	1.6
Montana	100.0	57.1	5.2	.0	32.0	.0	2.9	.0	2.9
North Dakota	100.0	54.7	1.9	.0	38.5	.0	2.8	.0	2.0
Delaware	100.0	20.6	21.4	.0	50.1	.0	6.9	.0	1.0
Wyoming	100.0	31.4	6.0	.0	39.8	.0	22.5	.0	.4
South Dakota	100.0	42.1	13.9	.0	32.5	.0	8.3	.0	3.2
Outlying areas	100.0	33.8	50.9	.0	12.0	2.2	.2	.3	.6
Offices abroad	100.0	79.7	13.6	.0	1.6	.0	1.6	.0	3.6

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1991.

KEY: FFRDCs = Federally funded research and development centers
* = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-135. Federal obligations for research and development, by State and agency: fiscal year 1991

[Dollars in thousands]

State (in order of total Federal R&D obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense 1/	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	Environmental Protection Agency	National Aeronautics & Space Admin	National Science Foundation
Total	59,865,395	1,230,426	489,537	32,005,772	5,980,917	9,708,074	592,290	379,196	432,632	7,268,509	1,778,042
California	14,488,289	71,291	22,746	9,319,433	1,122,209	1,242,492	44,509	9,039	4,292	2,424,342	227,936
Maryland	5,569,029	109,170	156,303	2,453,479	85,135	1,990,875	16,734	29,925	17,534	671,927	37,947
Massachusetts	3,146,842	20,614	30,197	1,900,884	98,851	787,367	5,791	52,780	22,410	102,361	125,587
New York	3,086,577	30,820	2,843	1,260,785	531,888	1,008,563	6,790	5,360	5,307	50,318	183,903
Virginia	2,908,999	10,835	4,245	2,018,857	47,518	168,617	46,835	41,750	36,167	492,115	42,060
Colorado	2,694,164	29,073	64,902	2,005,895	94,213	116,732	42,377	7,077	4,694	174,813	154,388
Texas	2,321,396	56,303	4,126	981,943	139,349	336,614	7,687	24,980	18,767	697,365	54,262
Florida	2,181,144	28,632	51,496	1,334,927	18,785	104,923	12,685	1,988	13,511	566,454	47,743
Pennsylvania	2,125,798	37,205	781	991,096	351,552	547,869	36,107	9,559	12,137	48,844	90,648
New Mexico	2,018,739	5,618	66	815,385	1,092,519	32,001	6,516	162	1,552	55,124	9,796
District of Columbia	1,943,712	132,050	8,156	973,943	207,273	200,553	26,063	33,874	15,692	288,183	57,925
Alabama	1,863,182	14,791	275	870,676	34,226	106,936	9,459	103	8,498	810,833	7,385
Ohio	1,729,901	16,371	2,190	957,073	51,040	206,212	4,719	14,091	34,663	413,869	29,673
New Jersey	1,698,255	6,943	14,579	1,214,336	109,960	92,432	7,215	92,045	15,252	108,498	36,995
Washington	1,241,102	28,033	46,640	683,828	138,464	256,385	19,842	1,079	5,554	24,351	36,926
Illinois	959,374	37,692	824	151,075	405,693	226,361	6,194	5,530	1,828	16,793	107,384
Michigan	772,631	21,565	11,436	397,900	19,453	210,220	7,786	969	13,341	29,648	60,313
Tennessee	732,230	9,124	10	231,825	316,909	125,724	4,656	549	1,092	32,228	10,113
North Carolina	673,840	30,807	7,902	167,900	8,520	336,406	5,987	1,055	73,312	8,668	33,283
Connecticut	672,726	4,468	3,339	392,033	30,838	173,168	3,183	16,303	3,782	26,492	19,120
Missouri	587,882	16,228	718	349,810	4,878	168,419	13,230	717	5,127	14,434	14,321
Arizona	516,763	15,904	483	328,484	5,740	67,734	12,480	5,010	985	24,065	55,878
Nevada	495,981	3,066	333	111,950	344,594	4,939	16,340	68	9,723	1,351	3,617
Georgia	466,521	45,778	661	196,789	11,167	147,000	6,837	296	19,104	17,254	21,635
Minnesota	455,713	21,865	2,192	204,072	5,513	152,604	17,653	922	17,410	5,445	28,037
Rhode Island	433,843	1,572	1,122	358,670	2,980	35,292	3,089	687	9,530	2,524	18,377
Utah	429,097	10,198	241	311,438	9,227	57,611	13,935	32	507	8,495	17,413
Indiana	378,703	13,166	197	214,637	22,546	75,085	4,138	469	659	7,395	40,411
Wisconsin	294,511	31,511	1,742	25,907	18,416	132,326	9,488	1,922	766	41,850	30,583
Idaho	279,091	17,052	0	5,886	232,273	5,106	14,949	2	107	1,629	2,087
South Carolina	250,369	14,912	764	25,867	166,740	28,539	4,193	530	420	1,369	7,035
Mississippi	230,551	43,905	2,980	106,369	9,200	10,959	4,831	416	5,593	41,522	4,776
Oregon	216,459	29,094	1,996	25,174	23,136	73,779	23,064	318	12,296	5,285	22,317
Iowa	209,833	36,773	1,956	32,583	32,659	77,020	3,890	3,000	524	9,932	11,496
New Hampshire	196,262	4,218	544	133,991	2,096	33,150	4,147	19	333	11,194	6,570
West Virginia	177,928	19,763	0	6,693	90,408	13,178	9,467	143	3,139	2,031	33,106
Louisiana	163,562	32,234	980	20,861	26,107	59,585	10,026	1,063	1,902	3,121	7,683
Oklahoma	131,536	14,927	5,583	44,657	14,265	20,476	5,077	6,292	13,679	710	5,870
Kentucky	122,406	10,859	43	24,703	4,378	69,466	4,090	674	444	2,805	4,944
Hawaii	112,594	18,381	2,594	42,969	1,827	18,216	10,377	34	53	6,081	12,062
Alaska	102,740	5,456	27,619	16,561	10,145	4,013	22,265	268	122	6,508	9,783
Arkansas	85,866	12,150	13	14,330	1,085	35,478	5,098	78	15,035	213	2,386
Kansas	83,647	9,823	1,564	18,058	8,620	30,131	4,881	1,622	1,307	2,395	5,246
Nebraska	76,143	21,771	0	15,403	6,978	22,748	4,445	0	216	770	3,812
Maine	57,093	4,479	476	22,896	3,134	16,035	4,021	98	748	945	4,261
Vermont	56,096	5,881	57	9,300	705	33,690	3,498	12	681	288	1,984
Montana	45,792	13,157	30	1,611	1,515	15,969	6,308	0	793	468	5,941
North Dakota	43,733	23,662	275	377	7,071	3,059	6,787	461	137	31	1,873
Delaware	41,782	3,637	990	14,312	1,097	3,371	3,873	4,719	167	2,791	6,825
Wyoming	29,763	6,570	0	1,138	7,782	1,694	6,652	1,081	217	161	4,468
South Dakota	22,516	4,996	93	280	140	3,811	8,552	25	142	1,985	2,492
Outlying areas	221,727	11,911	210	181,201	0	17,041	3,384	0	378	238	7,366
Offices abroad	20,962	4,122	25	15,522	100	100	90	0	1,003	0	0

1/ Beginning with Volume XL, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-135A. Percentage distribution of Federal obligations for research and development of each agency, by State: fiscal year 1991

State (in order of total Federal R&D obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense 1/	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	Environmental Protection Agency	National Aeronautics & Space Admin	National Science Foundation
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
California	24.2	5.8	4.6	29.1	18.8	12.8	7.5	2.4	1.0	33.4	12.8
Maryland	9.3	8.9	31.9	7.7	1.4	20.5	2.8	7.9	4.1	9.2	2.1
Massachusetts	5.3	1.7	6.2	5.9	1.7	8.1	1.0	13.9	5.2	1.4	7.1
New York	5.2	2.5	.6	3.9	8.9	10.4	1.1	1.4	1.2	.7	10.3
Virginia	4.9	.9	.9	6.3	.8	1.7	7.9	11.0	8.4	6.8	2.4
Colorado	4.5	2.4	13.3	6.3	1.6	1.2	7.2	1.9	1.1	2.4	8.7
Texas	3.9	4.6	.8	3.1	2.3	3.5	1.3	6.6	4.3	9.6	3.1
Florida	3.6	2.3	10.5	4.2	.3	1.1	2.1	.5	3.1	7.8	2.7
Pennsylvania	3.6	3.0	.2	3.1	5.9	5.6	6.1	2.5	2.8	.7	5.1
New Mexico	3.4	.5	*	2.5	18.3	.3	1.1	*	.4	.8	.6
District of Columbia	3.2	10.7	1.7	3.0	3.5	2.1	4.4	8.9	3.6	4.0	3.3
Alabama	3.1	1.2	.1	2.7	.6	1.1	1.6	*	2.0	11.2	.4
Ohio	2.9	1.3	.4	3.0	.9	2.1	.8	3.7	8.0	5.7	1.7
New Jersey	2.8	.6	3.0	3.8	1.8	1.0	1.2	24.3	3.5	1.5	2.1
Washington	2.1	2.3	9.5	2.1	2.3	2.6	3.4	.3	1.3	.3	2.1
Illinois	1.6	3.1	.2	.5	6.8	2.3	1.0	1.5	.4	.2	6.0
Michigan	1.3	1.8	2.3	1.2	.3	2.2	1.3	.3	3.1	.4	3.4
Tennessee	1.2	.7	*	.7	5.3	1.3	.8	.1	.3	.4	.6
North Carolina	1.1	2.5	1.6	.5	.1	3.5	1.0	.3	16.9	.1	1.9
Connecticut	1.1	.4	.7	1.2	.5	1.8	.5	4.3	.9	.4	1.1
Missouri	1.0	1.3	.1	1.1	.1	1.7	2.2	.2	1.2	.2	.8
Arizona	.9	1.3	.1	1.0	.1	.7	2.1	1.3	.2	.3	3.1
Nevada	.8	.2	.1	.3	5.8	.1	2.8	*	2.2	*	.2
Georgia	.8	3.7	.1	.6	.2	1.5	1.2	.1	4.4	.2	1.2
Minnesota	.8	1.8	.4	.6	.1	1.6	3.0	.2	4.0	.1	1.6
Rhode Island	.7	.1	.2	1.1	*	.4	.5	.2	2.2	*	1.0
Utah	.7	.8	*	1.0	.2	.6	2.4	*	.1	.1	1.0
Indiana	.6	1.1	*	.7	.4	.8	.7	.1	.2	.1	2.3
Wisconsin	.5	2.6	.4	.1	.3	1.4	1.6	.5	.2	.6	1.7
Idaho	.5	1.4	.0	*	3.9	.1	2.5	*	*	*	.1
South Carolina	.4	1.2	.2	.1	2.8	.3	.7	.1	.1	*	.4
Mississippi	.4	3.6	.6	.3	.2	.1	.8	.1	1.3	.6	.3
Oregon	.4	2.4	.4	.1	.4	.8	3.9	.1	2.8	.1	1.3
Iowa	.4	3.0	.4	.1	.5	.8	.7	.8	.1	.1	.6
New Hampshire	.3	.3	.1	.4	*	.3	.7	*	.1	.2	.4
West Virginia	.3	1.6	.0	*	1.5	.1	1.6	*	.7	*	1.9
Louisiana	.3	2.6	.2	.1	.4	.6	1.7	.3	.4	*	.4
Oklahoma	.2	1.2	1.1	.1	.2	.2	.9	1.7	3.2	*	.3
Kentucky	.2	.9	*	.1	.1	.7	.7	.2	.1	*	.3
Hawaii	.2	1.5	.5	.1	*	.2	1.8	*	*	.1	.7
Alaska	.2	.4	5.6	.1	.2	*	3.8	.1	*	.1	.6
Arkansas	.1	1.0	*	*	*	.4	.9	*	3.5	*	.1
Kansas	.1	.8	.3	.1	.1	.3	.8	.4	.3	*	.3
Nebraska	.1	1.8	.0	*	.1	.2	.8	.0	*	*	.2
Maine	.1	.4	.1	.1	.1	.2	.7	*	.2	*	.2
Vermont	.1	.5	*	*	*	.3	.6	*	.2	*	.1
Montana	.1	1.1	*	*	*	.2	1.1	.0	.2	*	.3
North Dakota	.1	1.9	.1	*	.1	*	1.1	.1	*	*	.1
Delaware	.1	.3	.2	*	*	*	.7	1.2	*	*	.4
Wyoming	*	.5	.0	*	.1	*	1.1	.3	.1	*	.3
South Dakota	*	.4	*	*	*	*	1.4	*	*	*	.1
Outlying areas	.4	1.0	*	.6	.0	.2	.6	.0	.1	*	.4
Offices abroad	*	.3	*	*	*	*	*	.0	.2	.0	.0

1/ Beginning with Volume XL, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1991.

KEY: * = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-135B. Percentage distribution of Federal obligations for research and development of each State, by agency: fiscal year 1991

State (in order of total Federal R&D obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense 1/	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	Environmental Protection Agency	National Aeronautics & Space Admin	National Science Foundation
Total	100.0%	2.1%	.0.8%	53.5%	10.0%	16.2%	1.0%	.0.6%	.0.7%	12.1%	3.0%
California	100.0	.5	.2	64.3	7.7	8.6	.3	.1	*	16.7	1.6
Maryland	100.0	2.0	2.8	44.1	1.5	35.7	.3	.5	.3	12.1	.7
Massachusetts	100.0	.7	1.0	60.4	3.1	25.0	.2	1.7	.7	3.3	4.0
New York	100.0	1.0	.1	40.8	17.2	32.7	.2	.2	.2	1.6	6.0
Virginia	100.0	.4	.1	69.4	1.6	5.8	1.6	1.4	1.2	16.9	1.4
Colorado	100.0	1.1	2.4	74.5	3.5	4.3	1.6	.3	.2	6.5	5.7
Texas	100.0	2.4	.2	42.3	6.0	14.5	.3	1.1	.8	30.0	2.3
Florida	100.0	1.3	2.4	61.2	.9	4.8	.6	.1	.6	26.0	2.2
Pennsylvania	100.0	1.8	*	46.6	16.5	25.8	1.7	.4	.6	2.3	4.3
New Mexico	100.0	.3	*	40.4	54.1	1.6	.3	*	.1	2.7	.5
District of Columbia	100.0	6.8	.4	50.1	10.7	10.3	1.3	1.7	.8	14.8	3.0
Alabama	100.0	.8	*	46.7	1.8	5.7	.5	*	.5	43.5	.4
Ohio	100.0	.9	.1	55.3	3.0	11.9	.3	.8	2.0	23.9	1.7
New Jersey	100.0	.4	.9	71.5	6.5	5.4	.4	5.4	.9	6.4	2.2
Washington	100.0	2.3	3.8	55.1	11.2	20.7	1.6	.1	.4	2.0	3.0
Illinois	100.0	3.9	.1	15.7	42.3	23.6	.6	.6	.2	1.8	11.2
Michigan	100.0	2.8	1.5	51.5	2.5	27.2	1.0	.1	1.7	3.8	7.8
Tennessee	100.0	1.2	*	31.7	43.3	17.2	.6	.1	.1	4.4	1.4
North Carolina	100.0	4.6	1.2	24.9	1.3	49.9	.9	.2	10.9	1.3	4.9
Connecticut	100.0	.7	.5	58.3	4.6	25.7	.5	2.4	.6	3.9	2.8
Missouri	100.0	2.8	.1	59.5	.8	28.6	2.3	.1	.9	2.5	2.4
Arizona	100.0	3.1	.1	63.6	1.1	13.1	2.4	1.0	.2	4.7	10.8
Nevada	100.0	.6	.1	22.6	69.5	1.0	3.3	*	2.0	.3	.7
Georgia	100.0	9.8	.1	42.2	2.4	31.5	1.5	.1	4.1	3.7	4.6
Minnesota	100.0	4.8	.5	44.8	1.2	33.5	3.9	.2	3.8	1.2	6.2
Rhode Island	100.0	.4	.3	82.7	.7	8.1	.7	.2	2.2	.6	4.2
Utah	100.0	2.4	.1	72.6	2.2	13.4	3.2	*	.1	2.0	4.1
Indiana	100.0	3.5	.1	56.7	6.0	19.8	1.1	.1	.2	2.0	10.7
Wisconsin	100.0	10.7	.6	8.8	6.3	44.9	3.2	.7	.3	14.2	10.4
Idaho	100.0	6.1	.0	2.1	83.2	1.8	5.4	*	*	.6	.7
South Carolina	100.0	6.0	.3	10.3	66.6	11.4	1.7	.2	.2	.5	2.8
Mississippi	100.0	19.0	1.3	46.1	4.0	4.8	2.1	.2	2.4	18.0	2.1
Oregon	100.0	13.4	.9	11.6	10.7	34.1	10.7	.1	5.7	2.4	10.3
Iowa	100.0	17.5	.9	15.5	15.6	36.7	1.9	1.4	.2	4.7	5.5
New Hampshire	100.0	2.1	.3	68.3	1.1	16.9	2.1	*	.2	5.7	3.3
West Virginia	100.0	11.1	.0	3.8	50.8	7.4	5.3	.1	1.8	1.1	18.6
Louisiana	100.0	19.7	.6	12.8	16.0	36.4	6.1	.6	1.2	1.9	4.7
Oklahoma	100.0	11.3	4.2	34.0	10.8	15.6	3.9	4.8	10.4	.5	4.5
Kentucky	100.0	8.9	*	20.2	3.6	56.8	3.3	.6	.4	2.3	4.0
Hawaii	100.0	16.3	2.3	38.2	1.6	16.2	9.2	*	*	5.4	10.7
Alaska	100.0	5.3	26.9	16.1	9.9	3.9	21.7	.3	.1	6.3	9.5
Arkansas	100.0	14.1	*	16.7	1.3	41.3	5.9	.1	17.5	.2	2.8
Kansas	100.0	11.7	1.9	21.6	10.3	36.0	5.8	1.9	1.6	2.9	6.3
Nebraska	100.0	26.6	.0	20.2	9.2	29.9	5.8	.0	.3	1.0	5.0
Maine	100.0	7.8	.8	40.1	5.5	28.1	7.0	.2	1.3	1.7	7.5
Vermont	100.0	10.5	.1	16.6	1.3	60.1	6.2	*	1.2	.5	3.5
Montana	100.0	28.7	.1	3.5	3.3	34.9	13.8	.0	1.7	1.0	13.0
North Dakota	100.0	54.1	.6	.9	16.2	7.0	15.5	1.1	.3	.1	4.3
Delaware	100.0	8.7	2.4	34.3	2.6	8.1	9.3	11.3	.4	6.7	16.3
Wyoming	100.0	22.1	.0	3.8	26.1	5.7	22.3	3.6	.7	.5	15.0
South Dakota	100.0	22.2	.4	1.2	.6	16.9	38.0	.1	.6	8.8	11.1
Outlying areas	100.0	5.4	.1	81.7	.0	7.7	1.5	.0	.2	.1	3.3
Offices abroad	100.0	19.7	.1	74.0	.5	.5	.4	.0	4.8	.0	.0

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KEY: * = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-136. Federal obligations for research and development, by State, agency, and performer: fiscal year 1991

[Dollars in thousands]

State and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	59,865,395	14,753,121	26,337,081	2,027,500	9,990,860	3,585,000	2,302,069	665,894	203,870
Department of Agriculture	1,230,426	824,057	6,197	2	385,836	0	10,960	0	3,374
Department of Commerce	489,537	399,513	16,994	0	62,723	145	2,970	125	7,067
Department of Defense, research 2/	3,698,302	1,403,734	1,297,632	38,816	793,816	77,416	52,137	34,750	1
Dept of Defense, development 2/	28,307,470	6,753,107	19,736,003	277,224	358,036	559,844	215,195	407,584	477
Department of Energy	5,980,917	381,132	854,899	1,690,390	620,665	2,071,670	171,014	186,293	4,854
Department of Health & Human Svcs	9,708,074	1,975,076	373,043	16,554	5,658,151	28,203	1,487,185	17,147	152,715
Department of the Interior	592,290	489,517	32,795	3,648	58,537	0	1,533	0	6,260
Department of Transportation	379,196	234,806	88,165	150	21,185	0	7,190	17,738	9,962
Environmental Protection Agency	432,632	167,186	161,575	0	62,678	75	28,697	0	12,421
National Aeronautics & Space Admin	7,268,509	2,112,018	3,666,972	0	533,728	736,342	212,892	1,940	4,617
National Science Foundation	1,778,042	12,975	102,806	716	1,435,505	111,305	112,296	317	2,122
Alabama, total	1,863,182	700,617	970,069	0	154,815	0	36,212	0	1,469
Department of Agriculture	14,791	4,322	0	0	10,389	0	0	0	80
Department of Commerce	275	4	0	0	223	0	48	0	0
Department of Defense, research 2/	44,286	24,105	15,071	0	4,368	0	742	0	0
Dept of Defense, development 2/	826,390	406,971	398,735	0	5,596	0	15,088	0	0
Department of Energy	34,226	0	18,735	0	14,747	0	744	0	0
Department of Health & Human Svcs	106,936	4,946	1,017	0	83,891	0	16,408	0	674
Department of the Interior	9,459	8,156	320	0	583	0	0	0	400
Department of Transportation	103	0	0	0	103	0	0	0	0
Environmental Protection Agency	8,498	7,139	13	0	790	0	241	0	315
National Aeronautics & Space Admin	810,833	244,974	536,172	0	26,746	0	2,941	0	0
National Science Foundation	7,385	0	6	0	7,379	0	0	0	0
Alaska, total	102,740	58,705	10,108	0	30,606	0	1,954	0	1,367
Department of Agriculture	5,456	4,178	0	0	1,278	0	0	0	0
Department of Commerce	27,619	23,595	12	0	3,506	0	0	0	506
Department of Defense, research 2/	6,496	150	793	0	5,530	0	23	0	0
Dept of Defense, development 2/	10,065	10,035	0	0	30	0	0	0	0
Department of Energy	10,145	0	9,183	0	962	0	0	0	0
Department of Health & Human Svcs	4,013	489	0	0	1,129	0	1,881	0	514
Department of the Interior	22,265	20,258	120	0	1,647	0	0	0	240
Department of Transportation	268	0	0	0	221	0	0	0	47
Environmental Protection Agency	122	0	0	0	12	0	50	0	60
National Aeronautics & Space Admin	6,508	0	0	0	6,508	0	0	0	0
National Science Foundation	9,783	0	0	0	9,783	0	0	0	0
Arizona, total	516,763	132,341	220,526	0	125,776	25,740	10,840	0	1,540
Department of Agriculture	15,904	11,007	0	0	4,857	0	0	0	40
Department of Commerce	483	75	0	0	166	0	0	0	242
Department of Defense, research 2/	21,041	4,230	8,127	0	8,684	0	0	0	0
Dept of Defense, development 2/	307,443	105,707	199,813	0	135	0	1,788	0	0
Department of Energy	5,740	0	750	0	4,990	0	0	0	0
Department of Health & Human Svcs	67,734	483	788	0	57,487	0	8,254	0	722
Department of the Interior	12,480	7,015	2,716	0	2,633	0	0	0	116
Department of Transportation	5,010	0	4,688	0	102	0	0	0	220
Environmental Protection Agency	985	0	0	0	611	0	174	0	200
National Aeronautics & Space Admin	24,065	3,824	2,995	0	16,838	0	408	0	0
National Science Foundation	55,878	0	649	0	29,273	25,740	216	0	0
Arkansas, total	85,866	35,180	21,716	0	26,517	0	2,010	0	443
Department of Agriculture	12,150	3,384	6	0	8,760	0	0	0	0
Department of Commerce	13	0	0	0	13	0	0	0	0
Department of Defense, research 2/	705	89	199	0	417	0	0	0	0
Dept of Defense, development 2/	13,625	10,801	2,824	0	0	0	0	0	0
Department of Energy	1,085	0	383	0	702	0	0	0	0
Department of Health & Human Svcs	35,478	16,684	3,351	0	13,065	0	2,010	0	368
Department of the Interior	5,096	4,222	0	0	827	0	0	0	49
Department of Transportation	78	0	0	0	78	0	0	0	0
Environmental Protection Agency	15,035	0	14,939	0	70	0	0	0	26
National Aeronautics & Space Admin	213	0	14	0	199	0	0	0	0
National Science Foundation	2,386	0	0	0	2,386	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-136. Federal obligations for research and development, by State, agency, and performer: fiscal year 1991

[Dollars in thousands]

State and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
California, total	14,488,289	1,885,275	8,722,782	32,400	1,483,715	1,875,200	326,127	146,850	15,940
Department of Agriculture	71,291	51,243	321	0	18,931	0	691	0	105
Department of Commerce	22,746	15,224	1,430	0	5,170	0	141	0	781
Department of Defense, research 2/	733,329	112,081	399,561	2,533	154,754	18,844	19,218	26,338	0
Dept of Defense, development 2/	8,586,104	1,396,828	6,793,432	391	10,467	261,747	9,471	113,768	0
Department of Energy	1,122,209	635	140,739	29,476	101,311	846,060	3,794	194	0
Department of Health & Human Svcs	1,242,492	62,481	37,828	0	852,653	15,191	258,256	4,610	11,473
Department of the Interior	44,509	35,541	1,457	0	7,111	0	0	0	400
Department of Transportation	9,039	4,212	1,316	0	1,767	0	0	0	1,744
Environmental Protection Agency	4,292	0	0	0	2,332	0	654	0	1,306
National Aeronautics & Space Admin	2,424,342	206,704	1,337,777	0	125,819	733,081	19,080	1,808	73
National Science Foundation	227,936	326	8,921	0	203,400	277	14,822	132	58
Colorado, total	2,694,164	275,312	2,083,902	0	175,587	49,316	33,718	72,558	3,771
Department of Agriculture	29,073	24,217	25	0	4,828	0	3	0	0
Department of Commerce	64,902	58,481	200	0	6,157	0	64	0	0
Department of Defense, research 2/	51,488	3,175	36,267	0	11,997	43	6	0	0
Dept of Defense, development 2/	1,954,407	138,130	1,815,914	0	327	36	0	0	0
Department of Energy	94,213	1,431	13,217	0	6,586	0	510	72,469	0
Department of Health & Human Svcs	116,732	42	1,051	0	88,298	0	24,264	0	3,077
Department of the Interior	42,377	39,525	707	0	1,839	0	5	0	301
Department of Transportation	7,077	2,585	466	0	506	0	3,321	0	199
Environmental Protection Agency	4,694	0	894	0	1,938	75	1,692	0	95
National Aeronautics & Space Admin	174,813	7,405	143,477	0	18,275	2,983	2,584	89	0
National Science Foundation	154,388	321	71,684	0	34,836	46,179	1,269	0	99
Connecticut, total	672,726	46,602	407,499	0	200,421	0	14,568	0	3,636
Department of Agriculture	4,468	1,743	0	0	1,738	0	0	0	987
Department of Commerce	3,339	0	4	0	3,335	0	0	0	0
Department of Defense, research 2/	33,646	11,504	13,347	0	8,795	0	0	0	0
Dept of Defense, development 2/	358,387	18,867	339,436	0	84	0	0	0	0
Department of Energy	30,838	0	20,530	0	10,219	0	89	0	0
Department of Health & Human Svcs	173,168	0	2,244	0	155,908	0	12,905	0	2,111
Department of the Interior	3,183	3,024	0	0	119	0	0	0	40
Department of Transportation	16,303	11,421	4,338	0	80	0	0	0	464
Environmental Protection Agency	3,782	0	2,651	0	548	0	549	0	34
National Aeronautics & Space Admin	26,492	43	24,184	0	1,431	0	834	0	0
National Science Foundation	19,120	0	765	0	18,164	0	191	0	0
Delaware, total	41,782	8,605	8,941	0	20,926	0	2,883	0	427
Department of Agriculture	3,637	1,328	150	0	2,119	0	0	0	40
Department of Commerce	990	0	370	0	620	0	0	0	0
Department of Defense, research 2/	9,638	3	1,708	0	7,927	0	0	0	0
Dept of Defense, development 2/	4,674	0	4,602	0	72	0	0	0	0
Department of Energy	1,097	0	97	0	760	0	240	0	0
Department of Health & Human Svcs	3,371	0	220	0	1,875	0	1,024	0	252
Department of the Interior	3,873	3,638	0	0	235	0	0	0	0
Department of Transportation	4,719	3,445	1,274	0	0	0	0	0	0
Environmental Protection Agency	167	0	0	0	32	0	0	0	135
National Aeronautics & Space Admin	2,791	191	411	0	1,420	0	769	0	0
National Science Foundation	6,825	0	109	0	5,866	0	850	0	0
District of Columbia, total	1,943,712	1,432,998	257,427	0	86,434	0	145,274	0	21,579
Department of Agriculture	132,050	126,527	4,547	0	799	0	177	0	0
Department of Commerce	8,156	7,609	18	0	522	0	7	0	0
Department of Defense, research 2/	228,089	201,957	10,129	0	7,341	0	8,662	0	0
Dept of Defense, development 2/	745,854	570,584	167,489	0	5,856	0	1,925	0	0
Department of Energy	207,273	176,668	21,637	0	1,467	0	7,501	0	0
Department of Health & Human Svcs	200,553	54,804	15,607	0	50,518	0	58,045	0	21,579
Department of the Interior	26,063	24,546	1,182	0	144	0	191	0	0
Department of Transportation	33,874	29,488	2,599	0	0	0	1,787	0	0
Environmental Protection Agency	15,692	0	5,103	0	776	0	9,813	0	0
National Aeronautics & Space Admin	288,183	234,217	27,753	0	6,362	0	19,851	0	0
National Science Foundation	57,925	6,598	1,363	0	12,649	0	37,315	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-136. Federal obligations for research and development, by State, agency, and performer: fiscal year 1991

[Dollars in thousands]

State and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Florida, total	2,181,144	657,605	1,299,289	0	214,162	0	5,307	0	4,781
Department of Agriculture	28,632	18,817	0	0	9,677	0	138	0	0
Department of Commerce	51,496	41,967	1,155	0	7,337	0	0	0	1,037
Department of Defense, research 2/	78,903	18,436	41,739	0	18,503	0	225	0	0
Dept of Defense, development 2/	1,256,024	239,705	1,011,233	0	4,945	0	141	0	0
Department of Energy	18,785	0	828	0	15,880	0	0	0	2,077
Department of Health & Human Svcs	104,923	0	1,993	0	98,529	0	3,782	0	619
Department of the Interior	12,685	11,654	0	0	961	0	0	0	70
Department of Transportation	1,988	176	205	0	958	0	0	0	649
Environmental Protection Agency	13,511	9,061	2,522	0	1,549	0	50	0	329
National Aeronautics & Space Admin	566,454	317,789	239,288	0	9,100	0	277	0	0
National Science Foundation	47,743	0	326	0	46,723	0	694	0	0
Georgia, total	466,521	121,008	168,575	0	168,887	0	5,834	0	2,217
Department of Agriculture	45,778	34,825	70	0	10,728	0	0	0	155
Department of Commerce	661	11	7	0	643	0	0	0	0
Department of Defense, research 2/	23,937	2,976	3,645	0	17,298	0	18	0	0
Dept of Defense, development 2/	172,852	11,359	152,947	0	8,546	0	0	0	0
Department of Energy	11,167	0	592	0	9,267	0	1,308	0	0
Department of Health & Human Svcs	147,000	51,842	862	0	90,507	0	3,062	0	727
Department of the Interior	6,837	5,865	0	0	972	0	0	0	0
Department of Transportation	296	162	4	0	12	0	0	0	118
Environmental Protection Agency	19,104	8,644	4,349	0	6,005	0	106	0	0
National Aeronautics & Space Admin	17,254	5,324	6,046	0	5,755	0	129	0	0
National Science Foundation	21,635	0	53	0	19,154	0	1,211	0	1,217
Hawaii, total	112,594	44,537	10,465	0	46,004	0	10,953	0	635
Department of Agriculture	18,381	9,743	0	0	4,233	0	4,405	0	0
Department of Commerce	2,594	1,170	186	0	1,238	0	0	0	0
Department of Defense, research 2/	10,037	524	364	0	9,149	0	0	0	0
Dept of Defense, development 2/	32,932	23,850	9,082	0	0	0	0	0	0
Department of Energy	1,827	0	0	0	1,827	0	0	0	0
Department of Health & Human Svcs	18,216	0	540	0	10,982	0	6,143	0	551
Department of the Interior	10,377	9,201	0	0	1,176	0	0	0	0
Department of Transportation	34	0	0	0	0	0	0	0	34
Environmental Protection Agency	53	0	0	0	3	0	0	0	50
National Aeronautics & Space Admin	6,081	49	180	0	5,793	0	59	0	0
National Science Foundation	12,062	0	113	0	11,603	0	346	0	0
Idaho, total	279,091	36,666	2,248	157,609	15,268	65,625	777	0	898
Department of Agriculture	17,052	12,045	0	2	4,955	0	0	0	50
Department of Defense, research 2/	1,237	284	50	76	827	0	0	0	0
Dept of Defense, development 2/	4,649	2,988	603	1,058	0	0	0	0	0
Department of Energy	232,273	12,715	1,314	152,690	269	65,108	27	0	150
Department of Health & Human Svcs	5,106	0	0	0	3,142	517	750	0	697
Department of the Interior	14,949	8,595	0	3,558	2,795	[illegible]	0	0	1
Department of Transportation	2	0	2	0	0	0	0	0	0
Environmental Protection Agency	107	0	0	0	107	0	0	0	0
National Aeronautics & Space Admin	1,629	39	36	0	1,554	0	0	0	0
National Science Foundation	2,087	0	243	225	1,619	0	0	0	0
Illinois, total	959,374	68,151	120,538	0	374,120	345,203	47,020	0	4,342
Department of Agriculture	37,692	27,585	67	0	9,850	0	55	0	135
Department of Commerce	824	12	7	0	487	0	0	0	318
Department of Defense, research 2/	56,380	10,540	8,726	0	35,662	1,201	251	0	0
Dept of Defense, development 2/	94,695	10,804	67,381	0	1,974	9,595	4,941	0	0
Department of Energy	405,693	10,294	30,298	0	28,382	330,907	4,325	0	1,487
Department of Health & Human Svcs	226,361	267	5,073	0	184,928	1,657	32,756	0	1,680
Department of the Interior	6,194	4,794	118	0	952	0	0	0	330
Department of Transportation	5,530	0	5,029	0	216	0	163	0	122
Environmental Protection Agency	1,828	0	532	0	463	0	563	0	270
National Aeronautics & Space Admin	16,793	3,379	2,435	0	10,491	130	358	0	0
National Science Foundation	107,384	476	872	0	100,715	1,713	3,608	0	0

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Table C-136. Federal obligations for research and development, by State, agency, and performer: fiscal year 1991

[Dollars in thousands]

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			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Indiana, total	378,703	92,036	130,002	0	151,562	0	4,247	0	856
Department of Agriculture	13,166	3,388	0	0	9,653	0	0	0	125
Department of Commerce	197	52	6	0	139	0	0	0	0
Department of Defense, research 2/	14,428	1,310	6,210	0	6,908	0	0	0	0
Dept of Defense, development 2/	200,209	83,306	116,161	0	247	0	495	0	0
Department of Energy	22,546	0	3,399	0	19,147	0	0	0	0
Department of Health & Human Svcs	75,085	0	2,315	0	69,572	0	2,827	0	371
Department of the Interior	4,138	3,411	0	0	707	0	0	0	20
Department of Transportation	469	0	16	0	271	0	0	0	182
Environmental Protection Agency	659	0	0	0	501	0	0	0	158
National Aeronautics & Space Admin	7,395	569	1,774	0	4,127	0	925	0	0
National Science Foundation	40,411	0	121	0	40,290	0	0	0	0
Iowa, total	209,833	26,977	26,953	0	126,011	25,989	3,316	0	587
Department of Agriculture	36,773	22,570	0	0	14,203	0	0	0	0
Department of Commerce	1,956	0	0	0	1,956	0	0	0	0
Department of Defense, research 2/	5,372	0	147	0	4,997	163	65	0	0
Dept of Defense, development 2/	27,211	849	25,626	0	736	0	0	0	0
Department of Energy	32,659	0	500	0	6,333	25,826	0	0	0
Department of Health & Human Svcs	77,020	0	325	0	73,089	0	3,166	0	440
Department of the Interior	3,890	3,519	0	0	287	0	0	0	84
Department of Transportation	3,000	0	0	0	3,000	0	0	0	0
Environmental Protection Agency	524	0	0	0	420	0	63	0	41
National Aeronautics & Space Admin	9,932	39	306	0	9,543	0	22	0	22
National Science Foundation	11,496	0	49	0	11,447	0	0	0	0
Kansas, total	83,647	11,961	17,803	0	46,865	0	5,219	0	1,799
Department of Agriculture	9,823	4,271	0	0	5,501	0	1	0	50
Department of Commerce	1,564	1,520	0	0	44	0	0	0	0
Department of Defense, research 2/	2,207	691	135	0	1,381	0	0	0	0
Dept of Defense, development 2/	15,851	686	15,165	0	0	0	0	0	0
Department of Energy	8,620	0	1,570	0	7,050	0	0	0	0
Department of Health & Human Svcs	30,131	5	822	0	22,780	0	5,218	0	1,306
Department of the Interior	4,881	4,469	0	0	286	0	0	0	126
Department of Transportation	1,622	0	0	0	1,517	0	0	0	105
Environmental Protection Agency	1,307	0	0	0	1,095	0	0	0	212
National Aeronautics & Space Admin	2,395	319	99	0	1,977	0	0	0	0
National Science Foundation	5,246	0	12	0	5,234	0	0	0	0
Kentucky, total	122,406	62,279	9,983	0	46,445	0	2,348	0	1,351
Department of Agriculture	10,859	1,563	0	0	9,296	0	0	0	0
Department of Commerce	43	10	0	0	33	0	0	0	0
Department of Defense, research 2/	1,612	1,096	66	0	450	0	0	0	0
Dept of Defense, development 2/	23,091	14,266	8,328	0	497	0	0	0	0
Department of Energy	4,378	0	0	0	4,378	0	0	0	0
Department of Health & Human Svcs	69,466	39,377	1,495	0	25,685	0	2,238	0	671
Department of the Interior	4,090	3,844	0	0	246	0	0	0	0
Department of Transportation	674	0	0	0	175	0	0	0	499
Environmental Protection Agency	444	0	0	0	153	0	110	0	181
National Aeronautics & Space Admin	2,805	2,123	48	0	634	0	0	0	0
National Science Foundation	4,944	0	46	0	4,898	0	0	0	0
Louisiana, total	163,562	43,104	11,870	0	104,197	0	2,268	0	2,123
Department of Agriculture	32,234	23,176	14	0	8,916	0	123	0	5
Department of Commerce	980	0	40	0	940	0	0	0	0
Department of Defense, research 2/	5,729	2,041	950	0	2,733	0	5	0	0
Dept of Defense, development 2/	15,132	6,270	8,109	0	753	0	0	0	0
Department of Energy	26,107	0	205	0	25,902	0	0	0	0
Department of Health & Human Svcs	59,585	3,068	490	0	53,111	0	2,140	0	776
Department of the Interior	10,026	7,790	0	0	1,957	0	0	0	279
Department of Transportation	1,063	0	0	0	355	0	0	0	708
Environmental Protection Agency	1,902	0	0	0	1,659	0	0	0	243
National Aeronautics & Space Admin	3,121	25	2,047	0	1,049	0	0	0	0
National Science Foundation	7,683	734	15	0	6,822	0	0	0	112

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Table C-136. Federal obligations for research and development, by State, agency, and performer: fiscal year 1991

[Dollars in thousands]

State and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Maine, total	57,093	13,862	16,422	0	8,971	0	16,456	0	1,382
Department of Agriculture	4,479	933	0	0	3,461	0	0	0	85
Department of Commerce	476	0	24	0	452	0	0	0	0
Department of Defense, research 2/	1,170	0	713	0	320	0	137	0	0
Dept of Defense, development 2/	21,726	9,274	12,452	0	0	0	0	0	0
Department of Energy	3,134	0	2,796	0	338	0	0	0	0
Department of Health & Human Svcs	16,035	0	239	0	895	0	14,079	0	822
Department of the Interior	4,021	3,655	0	0	318	0	0	0	48
Department of Transportation	98	0	49	0	18	0	0	0	31
Environmental Protection Agency	748	0	0	0	254	0	222	0	272
National Aeronautics & Space Admin	945	0	107	0	308	0	530	0	0
National Science Foundation	4,261	0	42	0	2,607	0	1,488	0	124
Maryland, total	5,569,029	3,432,212	1,434,522	14,444	531,094	0	149,107	1,642	6,008
Department of Agriculture	109,170	99,100	70	0	9,835	0	6	0	159
Department of Commerce	156,303	152,311	1,770	0	2,222	0	0	0	0
Department of Defense, research 2/	360,209	258,151	75,798	0	25,333	0	927	0	0
Dept of Defense, development 2/	2,093,270	990,332	903,394	0	172,364	0	25,533	1,642	5
Department of Energy	85,135	46,701	24,041	0	12,587	0	1,806	0	0
Department of Health & Human Svcs	1,990,875	1,567,899	99,387	14,444	249,759	0	55,816	0	3,570
Department of the Interior	16,734	16,444	0	0	267	0	0	0	23
Department of Transportation	29,925	17,843	11,699	0	212	0	29	0	142
Environmental Protection Agency	17,534	8,443	3,964	0	1,660	0	1,967	0	1,500
National Aeronautics & Space Admin	671,927	273,817	312,888	0	22,880	0	61,733	0	609
National Science Foundation	37,947	1,171	1,511	0	33,975	0	1,290	0	0
Massachusetts, total	3,146,842	277,787	1,362,977	0	687,884	198,881	433,698	176,086	9,529
Department of Agriculture	20,614	14,878	133	0	5,126	0	405	0	72
Department of Commerce	30,197	20,428	797	0	6,687	0	155	0	2,130
Department of Defense, research 2/	274,055	61,524	80,348	0	105,866	24,324	1,741	252	0
Dept of Defense, development 2/	1,626,829	108,038	1,150,531	0	8,140	174,557	10,231	175,332	0
Department of Energy	98,851	45	23,121	0	73,364	0	2,321	0	0
Department of Health & Human Svcs	787,367	16,766	61,175	0	329,959	0	372,310	407	6,750
Department of the Interior	5,791	4,910	0	0	673	0	125	0	83
Department of Transportation	52,780	49,783	1,807	0	758	0	432	0	0
Environmental Protection Agency	22,410	0	18,001	0	2,444	0	1,471	0	494
National Aeronautics & Space Admin	102,361	1,143	23,074	0	37,658	0	40,486	0	0
National Science Foundation	125,587	272	3,990	0	117,209	0	4,021	95	0
Michigan, total	772,631	91,833	330,927	0	306,587	0	41,543	0	1,741
Department of Agriculture	21,565	7,562	0	0	13,943	0	7	0	53
Department of Commerce	11,436	8,085	267	0	675	0	2,409	0	0
Department of Defense, research 2/	61,613	24,652	13,586	0	21,339	0	2,035	0	1
Dept of Defense, development 2/	336,287	33,711	300,805	0	1,720	0	51	0	0
Department of Energy	19,453	0	6,617	0	12,836	0	0	0	0
Department of Health & Human Svcs	210,220	140	3,523	0	178,648	0	26,590	0	1,319
Department of the Interior	7,786	6,962	0	0	804	0	0	0	20
Department of Transportation	969	0	455	0	360	0	0	0	154
Environmental Protection Agency	13,341	8,961	2,195	0	1,508	0	483	0	194
National Aeronautics & Space Admin	29,648	1,760	3,353	0	22,723	0	1,812	0	0
National Science Foundation	60,313	0	126	0	52,031	0	8,156	0	0
Minnesota, total	455,713	40,468	212,108	0	154,798	0	45,733	0	2,606
Department of Agriculture	21,865	12,959	33	0	8,873	0	0	0	0
Department of Commerce	2,192	3	1,167	0	1,022	0	0	0	0
Department of Defense, research 2/	45,138	60	39,129	0	5,570	0	379	0	0
Dept of Defense, development 2/	158,934	288	158,405	0	241	0	0	0	0
Department of Energy	5,513	0	0	0	5,513	0	0	0	0
Department of Health & Human Svcs	152,604	0	3,798	0	102,552	0	43,893	0	2,361
Department of the Interior	17,653	15,474	1,231	0	941	0	0	0	7
Department of Transportation	922	0	905	0	0	0	0	0	17
Environmental Protection Agency	17,410	11,569	4,626	0	929	0	65	0	221
National Aeronautics & Space Admin	5,445	115	1,976	0	3,354	0	0	0	0
National Science Foundation	28,037	0	838	0	25,803	0	1,396	0	0

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			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Mississippi, total	230,551	157,156	28,037	0	40,026	0	3,841	0	1,491
Department of Agriculture	43,905	30,905	45	0	12,053	0	817	0	85
Department of Commerce	2,980	2,572	0	0	408	0	0	0	0
Department of Defense, research 2/	67,657	54,487	10,809	0	2,324	0	37	0	0
Dept of Defense, development 2/	38,712	32,233	5,641	0	437	0	401	0	0
Department of Energy	9,200	0	250	0	8,950	0	0	0	0
Department of Health & Human Svcs	10,959	0	0	0	8,949	0	1,072	0	938
Department of the Interior	4,831	4,219	0	0	575	0	0	0	37
Department of Transportation	416	30	0	0	0	0	0	0	386
Environmental Protection Agency	5,593	5,166	0	0	382	0	0	0	45
National Aeronautics & Space Admin	41,522	27,544	11,292	0	1,172	0	1,514	0	0
National Science Foundation	4,776	0	0	0	4,776	0	0	0	0
Missouri, total	587,882	71,220	311,595	0	181,446	0	22,217	0	1,404
Department of Agriculture	16,228	5,852	14	0	10,362	0	0	0	0
Department of Commerce	718	456	153	0	109	0	0	0	0
Department of Defense, research 2/	28,885	7,307	18,164	0	3,414	0	0	0	0
Dept of Defense, development 2/	320,925	45,799	274,578	0	548	0	0	0	0
Department of Energy	4,878	0	1,298	0	3,390	0	190	0	0
Department of Health & Human Svcs	168,419	0	1,257	0	145,589	0	20,742	0	831
Department of the Interior	13,230	11,806	283	0	1,064	0	0	0	77
Department of Transportation	717	0	159	0	82	0	0	0	476
Environmental Protection Agency	5,127	0	4,765	0	342	0	0	0	20
National Aeronautics & Space Admin	14,434	0	10,561	0	3,706	0	167	0	0
National Science Foundation	14,321	0	363	0	12,840	0	1,118	0	0
Montana, total	45,792	26,133	2,360	0	14,635	0	1,340	0	1,324
Department of Agriculture	13,157	8,995	14	0	3,972	0	111	0	65
Department of Commerce	30	0	0	0	30	0	0	0	0
Department of Defense, research 2/	274	0	15	0	199	0	60	0	0
Dept of Defense, development 2/	1,337	182	1,155	0	0	0	0	0	0
Department of Energy	1,515	370	664	0	356	0	0	0	125
Department of Health & Human Svcs	15,969	11,012	239	0	2,820	0	1,169	0	729
Department of the Interior	6,308	5,574	0	0	619	0	0	0	115
Environmental Protection Agency	793	0	50	0	453	0	0	0	290
National Aeronautics & Space Admin	468	0	0	0	468	0	0	0	0
National Science Foundation	5,941	0	223	0	5,718	0	0	0	0
Nebraska, total	76,143	21,920	11,189	0	36,329	0	6,125	0	580
Department of Agriculture	21,771	14,749	77	0	6,905	0	0	0	40
Department of Defense, research 2/	2,502	88	553	0	1,861	0	0	0	0
Dept of Defense, development 2/	12,901	2,883	9,943	0	75	0	0	0	0
Department of Energy	6,978	0	450	0	6,528	0	0	0	0
Department of Health & Human Svcs	22,748	0	91	0	16,199	0	6,010	0	448
Department of the Interior	4,445	4,200	0	0	203	0	0	0	42
Environmental Protection Agency	216	0	0	0	51	0	115	0	50
National Aeronautics & Space Admin	770	0	75	0	695	0	0	0	0
National Science Foundation	3,812	0	0	0	3,812	0	0	0	0
Nevada, total	495,981	108,614	370,283	0	13,730	0	2,876	0	478
Department of Agriculture	3,066	744	0	0	2,322	0	0	0	0
Department of Commerce	333	0	0	0	15	0	0	0	318
Department of Defense, research 2/	86,892	65,754	21,089	0	49	0	0	0	0
Dept of Defense, development 2/	25,058	18,308	6,333	0	417	0	0	0	0
Department of Energy	344,594	25	342,118	0	463	0	1,988	0	0
Department of Health & Human Svcs	4,939	0	0	0	3,951	0	888	0	100
Department of the Interior	16,340	14,855	169	0	1,256	0	0	0	60
Department of Transportation	68	0	0	0	68	0	0	0	0
Environmental Protection Agency	9,723	8,560	0	0	1,163	0	0	0	0
National Aeronautics & Space Admin	1,351	368	560	0	423	0	0	0	0
National Science Foundation	3,617	0	14	0	3,603	0	0	0	0

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			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
New Hampshire, total	196,262	88,342	51,050	0	55,900	0	330	0	640
Department of Agriculture	4,218	2,214	0	0	2,004	0	0	0	0
Department of Commerce	544	0	0	0	544	0	0	0	0
Department of Defense, research 2/	25,473	13,181	8,793	0	3,499	0	0	0	0
Dept of Defense, development 2/	108,518	69,031	39,031	0	456	0	0	0	0
Department of Energy	2,096	0	600	0	1,496	0	0	0	0
Department of Health & Human Svcs	33,150	0	0	0	32,305	0	330	0	515
Department of the Interior	4,147	3,737	0	0	410	0	0	0	0
Department of Transportation	19	0	19	0	0	0	0	0	0
Environmental Protection Agency	333	0	0	0	208	0	0	0	125
National Aeronautics & Space Admin	11,194	27	2,314	0	8,853	0	0	0	0
National Science Foundation	6,570	152	293	0	6,125	0	0	0	0
New Jersey, total	1,698,255	512,928	933,613	0	148,685	87,843	11,528	105	3,553
Department of Agriculture	6,943	2,055	0	0	4,821	0	0	0	67
Department of Commerce	14,579	12,362	1,376	0	841	0	0	0	0
Department of Defense, research 2/	118,688	67,032	35,988	0	15,416	0	252	0	0
Dept of Defense, development 2/	1,095,648	321,651	771,930	0	850	0	1,217	0	0
Department of Energy	109,960	875	13,301	0	7,632	87,843	309	0	0
Department of Health & Human Svcs	92,432	0	7,899	0	75,863	0	7,974	105	591
Department of the Interior	7,215	5,076	0	0	412	0	0	0	1,727
Department of Transportation	92,045	90,500	51	0	603	0	0	0	891
Environmental Protection Agency	15,252	11,920	602	0	2,410	0	43	0	277
National Aeronautics & Space Admin	108,498	1,457	101,425	0	5,410	0	206	0	0
National Science Foundation	36,995	0	1,041	0	34,427	0	1,527	0	0
New Mexico, total	2,018,739	392,967	227,543	705,020	73,853	601,280	7,241	7,438	3,397
Department of Agriculture	5,618	2,566	0	0	3,011	0	25	0	16
Department of Commerce	66	0	0	0	66	0	0	0	0
Department of Defense, research 2/	116,434	51,934	17,203	18,589	10,686	17,994	28	0	0
Dept of Defense, development 2/	698,951	313,095	179,909	110,776	5,768	88,960	0	0	443
Department of Energy	1,092,519	2,090	11,421	575,565	7,271	488,117	517	7,438	100
Department of Health & Human Svcs	32,001	1,113	531	0	15,641	6,041	5,998	0	2,677
Department of the Interior	6,516	5,996	0	90	401	0	0	0	29
Department of Transportation	162	0	99	0	16	0	0	0	47
Environmental Protection Agency	1,552	0	890	0	309	0	308	0	45
National Aeronautics & Space Admin	55,124	15,764	17,146	0	21,901	148	125	0	40
National Science Foundation	9,796	409	344	0	8,783	20	240	0	0
New York, total	3,086,577	173,988	1,115,385	317,818	1,035,594	209,961	169,570	270	63,991
Department of Agriculture	30,820	14,239	70	0	15,029	0	1,482	0	0
Department of Commerce	2,843	8	1,099	0	1,601	135	0	0	0
Department of Defense, research 2/	196,218	48,320	69,840	9,798	54,753	12,164	1,343	0	0
Dept of Defense, development 2/	1,064,567	23,844	1,000,268	33,994	4,466	1,763	232	0	0
Department of Energy	531,888	11,344	7,997	274,026	47,521	189,932	1,088	0	0
Department of Health & Human Svcs	1,008,563	62,330	12,740	0	717,473	4,102	149,563	270	62,085
Department of the Interior	6,790	4,907	0	0	828	0	1,057	0	0
Department of Transportation	5,360	0	4,144	0	199	0	0	0	1,017
Environmental Protection Agency	5,307	0	1,895	0	2,540	0	491	0	381
National Aeronautics & Space Admin	50,318	8,692	15,221	0	22,453	0	3,952	0	0
National Science Foundation	183,903	304	2,111	0	168,733	1,865	10,382	0	508
North Carolina, total	673,840	150,956	164,317	0	329,383	0	27,279	0	1,905
Department of Agriculture	30,807	17,007	90	0	13,611	0	68	0	31
Department of Commerce	7,902	5,095	259	0	2,548	0	0	0	0
Department of Defense, research 2/	37,587	10,816	4,943	0	18,042	0	3,786	0	0
Dept of Defense, development 2/	130,313	16,752	111,516	0	1,584	0	461	0	0
Department of Energy	8,520	895	1,665	0	5,279	0	681	0	0
Department of Health & Human Svcs	336,406	64,792	8,165	0	242,024	0	19,805	0	1,620
Department of the Interior	5,987	4,931	0	0	963	0	0	0	93
Department of Transportation	1,055	0	39	0	964	0	0	0	52
Environmental Protection Agency	73,312	30,461	35,313	0	6,296	0	1,133	0	109
National Aeronautics & Space Admin	8,668	207	1,403	0	5,713	0	1,345	0	0
National Science Foundation	33,283	0	924	0	32,359	0	0	0	0

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North Dakota, total	43,733	23,938	837	0	16,845	0	1,231	0	882
Department of Agriculture	23,662	17,739	0	0	5,811	0	0	0	112
Department of Commerce	275	0	0	0	0	0	0	0	275
Department of Defense, research 2/	114	0	0	0	114	0	0	0	0
Dept of Defense, development 2/	263	50	143	0	70	0	0	0	0
Department of Energy	7,071	0	233	0	6,838	0	0	0	0
Department of Health & Human Svcs	3,059	0	0	0	1,559	0	1,231	0	269
Department of the Interior	6,787	6,149	0	0	500	0	0	0	138
Department of Transportation	461	0	461	0	0	0	0	0	0
Environmental Protection Agency	137	0	0	0	49	0	0	0	88
National Aeronautics & Space Admin	31	0	0	0	31	0	0	0	0
National Science Foundation	1,873	0	0	0	1,873	0	0	0	0
Ohio, total	1,729,901	688,926	724,035	0	258,066	0	56,590	0	2,284
Department of Agriculture	16,371	6,322	0	0	10,030	0	19	0	0
Department of Commerce	2,190	1	1,449	0	720	0	20	0	0
Department of Defense, research 2/	251,499	163,032	62,953	0	20,246	0	5,268	0	0
Dept of Defense, development 2/	705,574	193,226	501,184	0	515	0	10,649	0	0
Department of Energy	51,040	14,715	19,916	0	15,914	0	495	0	0
Department of Health & Human Svcs	206,212	7,509	6,768	0	157,729	0	33,018	0	1,188
Department of the Interior	4,719	4,019	0	0	516	0	0	0	184
Department of Transportation	14,091	4,595	8,711	0	661	0	67	0	57
Environmental Protection Agency	34,863	23,774	8,331	0	2,120	0	80	0	358
National Aeronautics & Space Admin	413,869	271,733	114,616	0	20,767	0	6,260	0	493
National Science Foundation	29,673	0	107	0	28,848	0	714	0	4
Oklahoma, total	131,536	40,970	38,567	0	32,186	0	18,425	0	1,388
Department of Agriculture	14,927	8,101	0	0	6,774	0	0	0	52
Department of Commerce	5,583	5,302	0	0	281	0	0	0	0
Department of Defense, research 2/	2,915	188	250	0	2,477	0	0	0	0
Dept of Defense, development 2/	41,742	4,646	37,036	0	60	0	0	0	0
Department of Energy	14,265	1,978	917	0	1,810	0	9,560	0	0
Department of Health & Human Svcs	20,476	0	142	0	12,556	0	7,267	0	511
Department of the Interior	5,077	4,240	0	0	732	0	0	0	105
Department of Transportation	6,292	6,051	0	0	214	0	0	0	27
Environmental Protection Agency	13,679	10,432	143	0	1,186	0	1,225	0	693
National Aeronautics & Space Admin	710	32	79	0	226	0	373	0	0
National Science Foundation	5,870	0	0	0	5,870	0	0	0	0
Oregon, total	216,459	47,486	24,710	0	116,756	0	24,305	0	3,202
Department of Agriculture	29,094	18,353	0	0	10,288	0	21	0	434
Department of Commerce	1,996	216	33	0	1,747	0	0	0	0
Department of Defense, research 2/	21,566	399	13,443	0	7,489	0	235	0	0
Dept of Defense, development 2/	3,608	467	2,714	0	427	0	0	0	0
Department of Energy	23,136	952	3,483	0	18,297	0	129	0	275
Department of Health & Human Svcs	73,779	65	1,305	0	46,656	0	23,638	0	2,115
Department of the Interior	23,064	16,790	519	0	5,617	0	0	0	138
Department of Transportation	318	0	2	0	257	0	0	0	59
Environmental Protection Agency	12,296	10,232	40	0	1,843	0	0	0	181
National Aeronautics & Space Admin	5,285	12	2,350	0	2,760	0	163	0	0
National Science Foundation	22,317	0	821	0	21,377	0	119	0	0
Pennsylvania, total	2,125,798	315,003	596,651	334,486	715,805	22,824	137,865	153	3,011
Department of Agriculture	37,205	27,627	97	0	9,345	0	110	0	26
Department of Commerce	781	15	57	0	649	0	0	0	60
Department of Defense, research 2/	153,004	30,805	35,907	4,465	81,494	150	183	0	0
Dept of Defense, development 2/	838,092	192,243	455,044	101,725	51,848	22,674	14,558	0	0
Department of Energy	351,552	37,745	44,523	228,296	19,586	0	21,402	0	0
Department of Health & Human Svcs	547,869	0	5,032	0	444,509	0	95,832	153	2,343
Department of the Interior	36,107	26,331	7,299	0	2,453	0	0	0	24
Department of Transportation	9,559	0	8,175	0	1,125	0	80	0	179
Environmental Protection Agency	12,137	0	7,151	0	3,536	0	1,071	0	379
National Aeronautics & Space Admin	48,844	237	32,630	0	15,436	0	541	0	0
National Science Foundation	90,648	0	736	0	85,824	0	4,088	0	0

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			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Rhode Island, total	433,843	226,367	134,495	0	54,612	0	17,878	0	491
Department of Agriculture	1,572	0	0	0	1,519	0	53	0	0
Department of Commerce	1,122	0	4	0	1,118	0	0	0	0
Department of Defense, research 2/	31,205	17,958	2,465	0	10,641	0	141	0	0
Dept of Defense, development 2/	327,465	196,142	131,322	0	0	0	1	0	0
Department of Energy	2,980	0	0	0	2,835	0	145	0	0
Department of Health & Human Svcs	35,292	0	100	0	18,268	0	16,452	0	472
Department of the Interior	3,089	2,500	0	0	589	0	0	0	0
Department of Transportation	687	471	175	0	22	0	0	0	19
Environmental Protection Agency	9,530	9,296	0	0	196	0	38	0	0
National Aeronautics & Space Admin	2,524	0	380	0	2,008	0	136	0	0
National Science Foundation	18,377	0	49	0	17,416	0	912	0	0
South Carolina, total	250,369	13,955	3,178	167,439	54,443	0	10,285	0	1,089
Department of Agriculture	14,912	7,681	0	0	7,231	0	0	0	0
Department of Commerce	764	0	0	0	724	0	40	0	0
Department of Defense, research 2/	2,159	0	625	0	1,534	0	0	0	0
Dept of Defense, development 2/	23,708	2,398	1,760	9,578	410	0	9,562	0	0
Department of Energy	166,740	0	264	157,861	8,615	0	0	0	0
Department of Health & Human Svcs	28,539	25	94	0	26,801	0	683	0	936
Department of the Interior	4,193	3,645	0	0	548	0	0	0	0
Department of Transportation	530	206	230	0	11	0	0	0	83
Environmental Protection Agency	420	0	50	0	320	0	0	0	50
National Aeronautics & Space Admin	1,369	0	155	0	1,214	0	0	0	0
National Science Foundation	7,035	0	0	0	7,035	0	0	0	0
South Dakota, total	22,516	9,470	3,129	0	7,324	0	1,868	0	725
Department of Agriculture	4,996	2,175	0	0	2,813	0	0	0	8
Department of Commerce	93	83	10	0	0	0	0	0	0
Department of Defense, research 2/	253	91	22	0	140	0	0	0	0
Dept of Defense, development 2/	27	5	22	0	0	0	0	0	0
Department of Energy	140	0	0	0	140	0	0	0	0
Department of Health & Human Svcs	3,811	347	175	0	782	0	1,868	0	639
Department of the Interior	8,552	5,237	2,900	0	380	0	0	0	35
Department of Transportation	25	0	0	0	6	0	0	0	19
Environmental Protection Agency	142	0	0	0	118	0	0	0	24
National Aeronautics & Space Admin	1,985	1,532	0	0	453	0	0	0	0
National Science Foundation	2,492	0	0	0	2,492	0	0	0	0
Tennessee, total	732,230	123,708	138,875	278,756	146,876	15,713	27,515	100	687
Department of Agriculture	9,124	279	0	0	8,643	0	202	0	0
Department of Commerce	10	0	0	0	0	10	0	0	0
Department of Defense, research 2/	16,575	6,622	1,300	2,579	5,608	346	20	100	0
Dept of Defense, development 2/	215,250	102,634	99,411	12,450	604	151	0	0	0
Department of Energy	316,909	1,694	25,762	260,976	12,700	14,511	1,266	0	0
Department of Health & Human Svcs	125,724	3,179	1,198	2,110	102,891	695	15,282	0	389
Department of the Interior	4,656	3,848	0	0	778	0	0	0	30
Department of Transportation	549	278	0	150	102	0	0	0	19
Environmental Protection Agency	1,092	0	100	0	723	0	0	0	269
National Aeronautics & Space Admin	32,228	5,063	10,972	0	5,448	0	10,745	0	0
National Science Foundation	10,113	111	132	491	9,379	0	0	0	0
Texas, total	2,321,398	405,267	1,168,412	0	486,437	2,548	257,134	0	3,598
Department of Agriculture	56,303	40,098	178	0	15,862	0	0	0	165
Department of Commerce	4,128	45	2,704	0	1,287	0	0	0	90
Department of Defense, research 2/	139,537	30,741	76,191	0	27,747	2,187	2,671	0	0
Dept of Defense, development 2/	842,406	63,309	661,678	0	16,581	361	100,477	0	0
Department of Energy	139,349	1,800	12,650	0	24,238	0	100,146	0	515
Department of Health & Human Svcs	336,614	466	5,601	0	302,427	0	26,597	0	1,523
Department of the Interior	7,687	6,184	146	0	1,144	0	105	0	108
Department of Transportation	24,980	0	20,148	0	3,767	0	900	0	165
Environmental Protection Agency	18,767	0	9,998	0	7,589	0	175	0	1,005
National Aeronautics & Space Admin	697,365	262,624	376,337	0	32,528	0	25,849	0	27
National Science Foundation	54,262	0	781	0	53,267	0	214	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-136. Federal obligations for research and development, by State, agency, and performer: fiscal year 1991

[Dollars in thousands]

State and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Utah, total	429,097	103,269	189,252	0	132,100	0	3,735	0	741
Department of Agriculture	10,198	7,318	10	0	2,850	0	0	0	20
Department of Commerce	241	0	4	0	53	0	0	0	184
Department of Defense, research 2/	13,638	5,138	3,083	0	5,417	0	0	0	0
Dept of Defense, development 2/	297,800	78,940	176,327	0	42,533	0	0	0	0
Department of Energy	9,227	0	1,008	0	5,372	0	2,847	0	0
Department of Health & Human Svcs	57,611	0	2,168	0	54,253	0	888	0	302
Department of the Interior	13,935	11,182	360	0	2,310	0	0	0	83
Department of Transportation	32	0	2	0	0	0	0	0	30
Environmental Protection Agency	507	0	50	0	335	0	0	0	122
National Aeronautics & Space Admin	8,495	551	6,143	0	1,801	0	0	0	0
National Science Foundation	17,413	140	97	0	17,176	0	0	0	0
Vermont, total	56,096	5,122	10,283	0	35,234	0	4,543	0	914
Department of Agriculture	5,881	1,817	0	0	4,060	0	0	0	4
Department of Commerce	57	57	0	0	0	0	0	0	0
Department of Defense, research 2/	405	0	330	0	75	0	0	0	0
Dept of Defense, development 2/	8,895	35	8,860	0	0	0	0	0	0
Department of Energy	705	0	35	0	670	0	0	0	0
Department of Health & Human Svcs	33,690	0	886	0	27,477	0	4,543	0	784
Department of the Interior	3,498	3,213	0	0	270	0	0	0	15
Department of Transportation	12	0	0	0	0	0	0	0	12
Environmental Protection Agency	681	0	0	0	582	0	0	0	99
National Aeronautics & Space Admin	288	0	171	0	117	0	0	0	0
National Science Foundation	1,984	0	1	0	1,983	0	0	0	0
Virginia, total	2,908,999	1,107,423	1,420,506	5,806	164,419	23,366	42,826	139,594	5,059
Department of Agriculture	10,835	1,797	0	0	8,253	0	716	0	69
Department of Commerce	4,245	2,309	729	0	1,021	0	86	100	0
Department of Defense, research 2/	245,450	87,014	135,672	0	12,464	0	3,027	7,273	0
Dept of Defense, development 2/	1,773,407	750,697	898,963	5,806	2,039	0	1,390	114,483	29
Department of Energy	47,518	6,557	10,311	0	7,249	23,366	35	0	0
Department of Health & Human Svcs	168,617	129	67,708	0	90,395	0	9,544	0	841
Department of the Interior	46,835	32,550	12,550	0	1,670	0	50	0	15
Department of Transportation	41,750	13,560	8,512	0	931	0	411	17,738	598
Environmental Protection Agency	36,167	0	32,154	0	363	0	3,498	0	154
National Aeronautics & Space Admin	492,115	210,849	251,725	0	17,821	0	8,367	0	3,353
National Science Foundation	42,060	1,961	2,182	0	22,213	0	15,704	0	0
Washington, total	1,241,102	132,503	630,250	13,722	266,317	0	72,156	120,334	5,820
Department of Agriculture	28,033	16,326	40	0	11,628	0	0	0	39
Department of Commerce	46,640	39,940	1,657	0	3,892	0	0	25	1,126
Department of Defense, research 2/	43,082	1,610	17,709	776	21,548	0	652	787	0
Dept of Defense, development 2/	640,746	51,225	579,268	1,446	4,895	0	1,553	2,359	0
Department of Energy	138,464	730	9,895	11,500	9,612	0	410	106,192	125
Department of Health & Human Svcs	256,385	916	3,842	0	168,253	0	68,650	10,838	3,886
Department of the Interior	19,842	17,252	688	0	1,609	0	0	0	293
Department of Transportation	1,079	0	137	0	728	0	0	0	214
Environmental Protection Agency	5,554	3,528	254	0	1,179	0	456	0	137
National Aeronautics & Space Admin	24,351	976	16,269	0	7,033	0	30	43	0
National Science Foundation	36,926	0	491	0	35,940	0	405	90	0
West Virginia, total	177,928	76,078	26,709	0	38,683	30,636	4,985	0	837
Department of Agriculture	19,763	13,811	0	0	4,627	0	1,325	0	0
Department of Defense, research 2/	5,613	0	235	0	5,378	0	0	0	0
Dept of Defense, development 2/	1,080	24	651	0	405	0	0	0	0
Department of Energy	90,408	50,873	24,936	0	14,574	0	25	0	0
Department of Health & Human Svcs	13,178	3,900	633	0	5,947	0	2,072	0	626
Department of the Interior	9,467	7,470	30	0	1,756	0	0	0	211
Department of Transportation	143	0	0	0	143	0	0	0	0
Environmental Protection Agency	3,139	0	0	0	1,576	0	1,563	0	0
National Aeronautics & Space Admin	2,031	0	224	0	1,807	0	0	0	0
National Science Foundation	33,106	0	0	0	2,470	30,636	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-136. Federal obligations for research and development, by State, agency, and performer: fiscal year 1991

[Dollars in thousands]

State and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Wisconsin, total	294,511	32,321	38,711	0	208,842	0	13,423	0	1,214
Department of Agriculture	31,511	21,543	53	0	9,915	0	0	0	0
Department of Commerce	1,742	495	0	0	1,247	0	0	0	0
Department of Defense, research 2/	16,977	656	3,068	0	13,253	0	0	0	0
Dept of Defense, development 2/	8,930	192	3,547	0	161	0	5,030	0	0
Department of Energy	18,416	0	50	0	17,723	0	643	0	0
Department of Health & Human Svcs	132,326	0	2,193	0	121,896	0	7,429	0	808
Department of the Interior	9,488	8,933	0	0	530	0	0	0	25
Department of Transportation	1,922	0	1,316	0	429	0	0	0	177
Environmental Protection Agency	766	0	0	0	562	0	0	0	204
National Aeronautics & Space Admin	41,850	502	28,484	0	12,543	0	321	0	0
National Science Foundation	30,583	0	0	0	30,583	0	0	0	0
Wyoming, total	29,763	9,339	1,775	0	11,843	0	6,689	0	117
Department of Agriculture	6,570	4,076	0	0	2,494	0	0	0	0
Department of Defense, research 2/	849	0	0	0	849	0	0	0	0
Dept of Defense, development 2/	289	132	0	0	157	0	0	0	0
Department of Energy	7,782	0	600	0	689	0	6,493	0	0
Department of Health & Human Svcs	1,694	0	0	0	1,398	0	196	0	100
Department of the Interior	6,652	5,131	0	0	1,521	0	0	0	0
Department of Transportation	1,081	0	933	0	148	0	0	0	0
Environmental Protection Agency	217	0	0	0	200	0	0	0	17
National Aeronautics & Space Admin	161	0	0	0	161	0	0	0	0
National Science Foundation	4,468	0	242	0	4,226	0	0	0	0
Outlying areas, total	221,727	74,924	112,840	0	26,509	4,875	527	764	1,288
Department of Agriculture	11,911	4,182	73	0	7,656	0	0	0	0
Department of Commerce	210	0	0	0	210	0	0	0	0
Department of Defense, research 2/	855	0	0	0	855	0	0	0	0
Dept of Defense, development 2/	180,346	67,712	112,634	0	0	0	0	0	0
Department of Health & Human Svcs	17,041	0	133	0	14,578	0	527	764	1,039
Department of the Interior	3,384	3,030	0	0	315	0	0	0	39
Environmental Protection Agency	378	0	0	0	168	0	0	0	210
National Aeronautics & Space Admin	236	0	0	0	236	0	0	0	0
National Science Foundation	7,366	0	0	0	2,491	4,875	0	0	0
Offices abroad, total	20,962	16,707	2,842	0	330	0	330	0	753
Department of Agriculture	4,122	4,122	0	0	0	0	0	0	0
Department of Commerce	25	0	0	0	25	0	0	0	0
Department of Defense, research 2/	1,251	982	174	0	95	0	0	0	0
Dept of Defense, development 2/	14,271	11,603	2,668	0	0	0	0	0	0
Department of Energy	100	0	0	0	100	0	0	0	0
Department of Health & Human Svcs	100	0	0	0	0	0	100	0	0
Department of the Interior	90	0	0	0	90	0	0	0	0
Environmental Protection Agency	1,003	0	0	0	20	0	230	0	753

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Beginning with Volume XL, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1991.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-137. Federal obligations for R&D plant, by State and category of performer supported: fiscal year 1991

[Dollars in thousands]

State	Total	Intra-mural 1/	Extramural						
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by nonprofit institu-tions	State and local govts
Total	3,634,495	450,416	1,887,795	279,638	226,495	624,578	145,361	19,660	552
Alabama	165,014	17,052	143,705	0	4,257	0	0	0	0
Alaska	200	0	200	0	0	0	0	0	0
Arizona	16,354	11,248	0	0	1,106	0	4,000	0	0
Arkansas	5,307	56	0	0	5,251	0	0	0	0
California	632,172	15,847	382,716	4,038	15,343	213,873	355	0	0
Colorado	50,747	12,581	21,676	0	1,070	7,600	132	7,688	0
Connecticut	2,561	204	0	0	1,957	0	0	0	400
Delaware	48	48	0	0	0	0	0	0	0
District of Columbia	16,126	11,438	4,688	0	0	0	0	0	0
Florida	479,797	4,196	456,990	0	18,611	0	0	0	0
Georgia	103,897	1,095	98,531	0	4,271	0	0	0	0
Hawaii	9,198	240	2,580	0	6,378	0	0	0	0
Idaho	46,004	920	0	35,936	1,872	7,276	0	0	0
Illinois	319,731	4,170	161,127	0	6,994	147,440	0	0	0
Indiana	4,981	35	1,206	0	3,740	0	0	0	0
Iowa	26,054	1,308	0	0	21,677	3,069	0	0	0
Kansas	5,158	423	700	0	4,035	0	0	0	0
Kentucky	1,649	10	949	0	690	0	0	0	0
Louisiana	26,121	6,902	19,219	0	0	0	0	0	0
Maine	693	441	0	0	100	0	0	0	152
Maryland	246,178	172,863	68,106	0	5,209	0	0	0	0
Massachusetts	28,980	9,832	6,161	0	12,379	498	110	0	0
Michigan	2,958	271	557	0	2,130	0	0	0	0
Minnesota	2,130	609	1,077	0	444	0	0	0	0
Mississippi	50,834	8,308	41,637	0	889	0	0	0	0
Missouri	6,450	3,806	381	0	2,263	0	0	0	0
Montana	1,598	218	0	0	1,380	0	0	0	0
Nebraska	5,985	1,620	0	0	4,365	0	0	0	0
Nevada	57,680	37	57,643	0	0	0	0	0	0
New Hampshire	310	310	0	0	0	0	0	0	0
New Jersey	29,771	17,848	566	0	8,759	2,598	0	0	0
New Mexico	173,282	3,770	20,478	88,336	350	59,203	0	1,145	0
New York	107,186	1,178	1,110	37,688	18,353	48,788	69	0	0
North Carolina	7,378	474	1,072	0	5,832	0	0	0	0
North Dakota	8,989	1,159	0	0	7,830	0	0	0	0
Ohio	267,666	14,207	252,540	0	919	0	0	0	0
Oklahoma	3,260	1,992	192	0	976	0	100	0	0
Oregon	3,337	1,651	253	0	1,433	0	0	0	0
Pennsylvania	89,455	5,180	18,629	36,535	28,937	0	174	0	0
Rhode Island	14,254	11,635	0	0	2,619	0	0	0	0
South Carolina	31,933	1,210	97	30,395	231	0	0	0	0
South Dakota	1,969	58	0	0	1,911	0	0	0	0
Tennessee	58,938	15,084	9,204	31,419	2,913	318	0	0	0
Texas	199,833	17,924	36,685	0	4,803	0	140,421	0	0
Utah	3,476	2,299	407	0	770	0	0	0	0
Vermont	766	30	0	0	736	0	0	0	0
Virginia	169,066	53,011	53,889	0	967	61,199	0	0	0
Washington	34,451	7,844	13,775	0	2,005	0	0	10,827	0
West Virginia	89,428	2,198	283	15,291	2,667	68,991	0	0	0
Wisconsin	12,997	1,606	5,224	0	6,167	0	0	0	0
Wyoming	678	103	0	0	575	0	0	0	0
Outlying areas	10,985	3,387	3,542	0	331	3,725	0	0	0
Offices abroad	482	482	0	0	0	0	0	0	0

1/ Federal installations

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1991.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-138. Federal obligations for R&D plant, by State and agency: fiscal year 1991

[Dollars in thousands]

State	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	Environmental Protection Agency	National Aeronautics & Space Admin	National Science Foundation
Total	3,634,495	144,620	15,749	1,253,174	1,220,120	86,284	22,191	18,383	0	714,417	159,557
Alabama	165,014	786	0	16,945	195	788	0	0	0	143,705	2,595
Alaska	200	0	200	0	0	0	0	0	0	0	0
Arizona	16,354	10,248	0	1,000	56	61	0	0	0	0	4,989
Arkansas	5,307	4,807	0	0	0	0	0	0	0	0	500
California	632,172	8,272	332	313,668	175,595	410	0	0	0	123,152	10,743
Colorado	50,747	9,679	3,874	15,028	8,081	568	365	1,689	0	0	11,463
Connecticut	2,561	10	0	194	445	562	0	400	0	0	950
Delaware	48	48	0	0	0	0	0	0	0	0	0
District of Columbia	16,126	3,180	77	7,358	853	0	0	0	0	4,658	0
Florida	479,797	3,598	0	348,280	11	542	0	0	0	111,917	15,449
Georgia	103,897	3,318	0	97,929	0	398	0	0	0	602	1,650
Hawaii	9,198	5,690	600	1,980	873	0	0	0	0	55	0
Idaho	46,004	1,492	0	0	43,212	0	0	0	0	0	1,300
Illinois	319,731	4,596	0	103	310,169	13	0	0	0	0	4,850
Indiana	4,981	1,490	0	0	1,632	204	0	0	0	1,206	449
Iowa	26,054	6,308	0	15,000	3,159	937	0	0	0	0	650
Kansas	5,158	4,042	0	0	700	0	0	0	0	0	416
Kentucky	1,649	10	0	0	0	0	0	0	0	949	690
Louisiana	26,121	2,543	0	59	0	0	4,300	0	0	19,219	0
Maine	693	316	0	277	0	0	0	0	0	0	100
Maryland	246,178	12,884	7,953	80,874	10,551	75,497	3,600	0	0	53,637	1,182
Massachusetts	28,980	532	818	10,798	10,800	209	0	0	0	4,273	1,550
Michigan	2,958	271	0	0	1,690	0	0	0	0	247	750
Minnesota	2,130	516	0	0	20	0	1,130	0	0	40	424
Mississippi	50,834	8,308	100	0	0	148	0	0	0	41,389	889
Missouri	6,450	3,707	0	0	0	813	99	0	0	381	1,450
Montana	1,598	1,430	0	0	0	168	0	0	0	0	0
Nebraska	5,985	5,985	0	0	0	0	0	0	0	0	0
Nevada	57,680	37	0	0	57,561	0	82	0	0	0	0
New Hampshire	310	10	0	300	0	0	0	0	0	0	0
New Jersey	29,771	2,468	200	7,304	2,889	0	250	16,294	0	366	0
New Mexico	173,282	224	0	19,491	146,769	0	0	0	0	6,448	350
New York	107,186	788	0	0	97,067	2,089	0	0	0	1,110	6,132
North Carolina	7,378	3,791	200	0	360	497	0	0	0	145	2,385
North Dakota	8,989	6,400	0	0	1,989	0	0	0	0	0	600
Ohio	267,666	48	0	192,937	789	115	0	0	0	73,052	725
Oklahoma	3,260	1,892	0	0	200	176	0	0	0	192	800
Oregon	3,337	1,630	0	0	192	300	274	0	0	0	941
Pennsylvania	89,455	1,680	870	20,000	43,642	855	296	0	0	16,369	5,743
Rhode Island	14,254	1,847	0	11,635	112	0	0	0	0	0	660
South Carolina	31,933	1,210	0	0	30,430	196	0	0	0	97	0
South Dakota	1,969	1,969	0	0	0	0	0	0	0	0	0
Tennessee	58,938	241	0	15,187	34,139	0	0	0	0	6,871	2,500
Texas	199,833	7,759	0	14,500	141,057	123	0	0	0	35,980	414
Utah	3,476	471	0	2,100	0	498	275	0	0	132	0
Vermont	766	391	0	0	0	0	0	0	0	0	375
Virginia	169,066	898	225	53,003	61,219	57	3,275	0	0	50,389	0
Washington	34,451	2,318	300	0	12,573	60	6,730	0	0	12,245	225
West Virginia	89,428	689	0	0	18,506	0	890	0	0	172	69,171
Wisconsin	12,997	3,503	0	0	2,584	0	625	0	0	5,419	866
Wyoming	678	103	0	0	0	0	0	0	0	0	575
Outlying areas	10,985	187	0	6,742	0	0	0	0	0	0	4,056
Offices abroad	482	0	0	482	0	0	0	0	0	0	0

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-139. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Total, all agencies	15,238,103	6,161,161	40.43	16,634,573	6,626,032	39.83	16,643,074	6,812,064	40.93
Departments:									
Department of Agriculture, total	824,057	472,697	57.36	885,367	506,175	57.17	899,238	529,881	58.93
Agricultural Cooperative Svc	2,812	1,954	69.49	3,298	2,295	69.59	3,097	2,155	69.58
Agricultural Marketing Svc 1/	2,646	1,856	70.14	3,426	2,403	70.14	3,280	2,301	70.15
Agricultural Research Svc	562,696	307,795	54.70	599,997	322,798	53.80	624,938	344,966	55.20
Animal & Plant Health Inspection Svc	15,192	12,154	80.00	16,188	12,950	80.00	16,107	12,886	80.00
Cooperative State Research Svc	18,298	9,144	49.97	20,331	10,280	50.56	19,758	10,887	55.10
Economic Research Svc	52,612	39,484	75.05	57,020	41,457	72.71	58,672	42,935	73.18
Federal Grain Inspection Svc	428	237	55.37	864	226	26.16	880	712	80.91
Forest Svc	155,950	92,491	59.31	172,061	105,094	61.08	160,588	103,970	64.74
Human Nutrition Information Svc	9,341	4,477	47.93	7,728	5,261	68.08	7,588	5,781	76.19
Nat'l Agricultural Statistics Svc	2,979	2,002	67.20	3,208	2,165	67.49	3,249	2,207	67.93
Office of International Cooperation & Development	1,103	1,103	100.00	1,246	1,246	100.00	1,081	1,081	100.00
Department of Commerce, total	399,513	256,594	64.23	425,934	274,538	64.46	476,969	294,895	61.83
Bureau of the Census	4,410	3,131	71.00	5,080	3,607	71.00	5,066	4,052	79.98
Economic Development Admin	762	12	1.57	100	5	5.00	0	0	.00
Nat'l Inst of Standards & Tech	123,908	85,477	68.98	131,649	90,615	68.83	159,029	109,525	68.87
Nat'l Oceanic & Atmospheric Admin	266,858	164,399	61.61	285,154	176,360	61.85	306,598	175,042	57.09
Nat'l Telecomm & Information Admin	3,575	3,575	100.00	3,951	3,951	100.00	6,276	6,276	100.00
Department of Defense, total	8,156,841	2,747,735	33.69	8,791,446	2,998,067	34.10	8,276,695	2,977,252	35.97
Department of the Army	2,238,370	973,513	43.49	2,372,792	1,082,347	45.61	2,095,793	1,096,904	52.34
Department of the Navy	3,003,599	1,172,863	39.05	3,041,925	1,185,837	38.98	3,024,273	1,199,406	39.66
Department of the Air Force	836,732	225,620	26.96	1,403,837	295,010	21.01	1,148,186	273,490	23.82
Defense agencies	1,960,449	371,656	18.96	1,888,868	431,683	22.85	1,689,922	315,593	18.68
Test & Evaluation, Deputy Under Secretary Defense	116,802	3,854	3.30	82,930	2,740	3.30	108,678	3,586	3.30
Director, Operational Test and Evaluation	889	229	25.76	1,094	450	41.13	1,143	480	41.99
Health Affairs, Assistant Secretary of Defense for	0	0	.00	0	0	.00	208,700	87,793	42.07
Department of Education	10,667	8,827	82.75	11,639	9,630	82.74	13,261	10,803	81.46
Department of Energy	381,132	96,831	25.41	498,401	116,769	23.43	567,124	117,253	20.68
Dept of Health & Human Svcs, total	1,975,076	768,059	38.89	2,244,601	772,309	34.41	2,360,453	848,072	35.93
Admin on Aging 2/	623	623	100.00	661	661	100.00	612	612	100.00
Admin for Children and Families 2/	1,559	1,494	95.83	1,923	1,843	95.84	1,707	1,636	95.84
Agency for Health Care Policy & Research 3/	23,161	11,136	48.08	24,353	11,708	48.08	16,987	8,131	47.87
Alcohol, Drug Abuse, & Mental Health Admin	379,835	98,072	25.82	412,206	55,036	13.35	443,382	93,502	21.09
Centers for Disease Control	55,542	44,701	80.48	58,872	47,100	80.00	59,505	47,600	79.99
Food & Drug Admin	85,340	72,539	85.00	93,991	79,892	85.00	97,809	83,138	85.00
Health Care Financing Admin	229	10	4.37	231	10	4.33	216	10	4.63
Health Resources and Svcs Admin	3,960	2,468	62.32	4,249	2,564	60.34	4,137	2,580	62.36
Nat'l Institutes of Health	1,407,858	530,107	37.65	1,625,172	564,540	34.74	1,720,072	601,115	34.95
Office of Asst Secy for Health	9,648	627	6.50	8,030	1,031	12.84	2,978	1,227	41.20
Office of the Secretary	1,333	637	47.79	890	850	95.51	1,000	900	90.00
Social Security Admin	5,988	5,645	94.27	14,023	7,074	50.45	12,048	7,621	63.26
Dept of Housing & Urban Development	15,269	11,500	75.32	15,557	11,900	76.49	16,857	12,600	74.75

See explanatory information, if any, and SOURCE at end of table.

Table C-139. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Department of the Interior, total	489,517	312,454	63.83	525,893	310,389	59.02	481,954	324,272	67.28
Bureau of Land Management	3,663	1,862	50.83	3,709	1,883	50.77	6,730	3,417	50.77
Bureau of Mines	74,552	54,871	73.60	96,109	42,558	44.28	74,703	55,280	74.00
Bureau of Reclamation	8,700	6,106	70.18	12,060	9,063	75.15	8,600	7,905	91.92
Geological Survey	309,072	179,262	58.00	317,950	184,411	58.00	299,058	188,406	63.00
Minerals Management Svc	1,279	603	47.15	939	642	68.37	932	635	68.13
Nat'l Park Svc	18,300	4,300	23.50	19,800	4,800	24.24	20,250	4,900	24.20
Office of the Secretary	50	39	78.00	125	80	64.00	280	175	62.50
Office of Surface Mining Reclamation & Enforcement	1	1	100.00	1	1	100.00	1	1	100.00
US Fish & Wildlife Svc	73,900	65,410	88.51	75,200	66,951	89.03	71,400	63,553	89.01
Department of Justice, total	14,056	5,058	35.98	15,667	5,427	34.64	28,938	5,598	19.34
Bureau of Prisons 4/	1,850	1,450	78.38	1,950	1,550	79.49	1,950	1,550	79.49
Drug Enforcement Admin	300	300	100.00	400	400	100.00	400	400	100.00
Federal Bureau of Investigation	10,810	3,263	30.19	11,427	3,427	29.99	24,298	3,598	14.81
Immigration & Naturalization Svc	40	40	100.00	40	40	100.00	40	40	100.00
Office of Justice Programs	1,056	5	.47	1,850	10	.54	2,250	10	.44
Department of Labor, total	10,968	4,949	45.12	15,690	5,333	33.99	14,743	5,408	36.68
Bureau of Labor Statistics	2,500	57	2.28	7,600	59	.78	8,400	61	.73
Employment and Training Admin	4,340	1,063	24.49	3,198	1,095	34.24	1,686	1,200	71.17
Occupational Safety & Health Admin	392	392	100.00	404	404	100.00	404	404	100.00
Office of the Secretary	2,771	2,771	100.00	3,617	3,107	85.90	3,592	3,082	85.80
Pension Benefit Guaranty Corporation	425	126	29.65	311	108	34.73	80	80	100.00
Pension & Welfare Benefit Admin	540	540	100.00	560	560	100.00	581	581	100.00
Department of State	338	338	100.00	351	351	100.00	365	365	100.00
Department of Transportation, total	234,806	76,110	32.41	242,175	79,243	32.72	261,516	81,992	31.35
Coast Guard	18,130	5,643	31.13	20,412	6,196	30.35	20,878	6,427	30.78
Federal Aviation Admin	188,503	61,594	32.68	190,118	64,112	33.72	205,898	65,569	31.85
Federal Highway Admin	2,613	395	15.12	2,000	649	32.45	3,720	744	20.00
Federal Railroad Admin	8,382	1,235	14.73	11,626	1,603	13.79	11,536	1,692	14.67
Maritime Admin	993	701	70.59	1,086	701	64.55	984	734	74.59
Nat'l Highway Traffic Safety Admin	10,022	3,608	36.00	10,310	3,711	35.99	12,372	4,453	35.99
Office of the Secretary	3,075	2,396	77.92	3,792	1,719	45.33	3,290	1,808	54.89
Research & Special Programs Admin	2,088	238	11.40	1,831	252	13.76	1,838	267	14.53
Federal Transit Admin 5/	1,000	300	30.00	1,000	300	30.00	1,000	300	30.00
Department of the Treasury, total	21,061	13,713	65.11	21,317	13,942	65.40	18,861	14,224	75.41
Bureau of Engraving and Printing	3,318	41	1.24	4,177	47	1.13	1,325	20	1.51
Financial Crimes Enforcement Network	2,278	330	14.49	1,642	475	28.93	1,798	584	32.48
Internal Revenue Svc	11,947	10,622	88.91	11,947	10,622	88.91	11,947	10,622	88.91
Office of Protective Research	176	176	100.00	212	212	100.00	252	252	100.00
Office of Thrift Supervision 6/	2,990	2,243	75.02	3,023	2,270	75.09	3,173	2,380	75.01
United States Customs Svc	300	300	100.00	250	250	100.00	300	300	100.00
United States Mint	52	1	1.92	66	66	100.00	66	66	100.00
Department of Veterans Affairs	214,300	145,081	67.70	233,450	155,477	66.60	239,450	159,474	66.60

See explanatory information, if any, and SOURCE at end of table.

Table C-139. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Other agencies:									
Advisory Commission on Intergovernmental Relations	1,663	1,007	60.55	1,510	1,043	69.07	1,481	1,073	72.45
Agency for International Development	12,464	9,348	75.00	9,327	6,995	75.00	8,291	6,215	74.96
Appalachian Regional Commission	100	100	100.00	35	35	100.00	100	100	100.00
Consumer Product Safety Commission	1,214	605	49.84	1,065	460	43.19	1,190	540	45.38
Environmental Protection Agency	167,186	103,200	61.73	109,731	105,400	96.05	116,342	113,800	97.82
Federal Communications Commission	1,442	1,442	100.00	1,594	1,594	100.00	1,585	1,585	100.00
Federal Trade Commission	957	842	87.98	528	465	88.07	548	482	87.96
International Trade Commission	9,885	5,724	57.91	11,720	6,753	57.62	12,533	7,210	57.53
Library of Congress	9,048	8,566	94.67	10,606	10,351	97.60	10,539	10,313	97.86
Nat'l Aeronautics & Space Admin	2,112,018	992,883	47.01	2,361,539	1,113,581	47.15	2,645,972	1,172,649	44.32
Nat'l Archives & Records Admin	591	206	34.86	340	240	70.59	240	240	100.00
Nat'l Science Foundation	12,975	9,083	70.00	12,882	9,017	70.00	15,563	10,894	70.00
Nuclear Regulatory Commission	19,919	16,962	85.15	21,563	18,518	85.88	22,555	19,370	85.88
Smithsonian Institution	97,999	66,600	67.96	100,000	65,000	65.00	118,000	76,700	65.00
Tennessee Valley Authority	42,841	24,566	57.34	63,405	26,870	42.38	30,911	8,673	28.06
US Arms Control & Disarmament Agency	100	80	80.00	290	150	51.72	200	125	62.50
United States Information Agency	100	1	1.00	950	10	1.05	600	6	1.00

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ Name changed from Urban Mass Transit Administration on December 18, 1991

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-140. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Total, all agencies	2,446,473	1,172,668	47.93	2,705,294	1,246,706	46.08	2,892,927	1,356,448	46.89
Departments:									
Department of Agriculture, total	372,758	208,274	55.87	407,675	225,853	55.40	416,321	237,515	57.05
Agricultural Research Svc	294,965	161,346	54.70	322,364	173,432	53.80	335,573	185,236	55.20
Cooperative State Research Svc	9,065	4,334	47.81	9,675	4,647	48.03	9,492	4,921	51.84
Economic Research Svc	7,366	5,528	75.05	7,983	5,804	72.70	8,214	6,011	73.18
Forest Svc	59,206	35,260	59.55	65,377	40,060	61.28	60,911	39,582	64.98
Nat'l Agricultural Statistics Svc	1,067	717	67.20	1,126	760	67.50	1,140	774	67.89
Office of International Cooperation & Development	1,089	1,089	100.00	1,150	1,150	100.00	991	991	100.00
Department of Commerce, total	29,292	20,569	70.22	31,032	21,726	70.01	35,756	25,058	70.08
Bureau of the Census	241	171	70.95	298	212	71.14	294	235	79.93
Nat'l Inst of Standards & Tech	29,051	20,398	70.21	30,734	21,514	70.00	35,462	24,823	70.00
Department of Defense, total	298,546	121,063	40.55	293,338	126,966	43.28	333,111	136,293	40.92
Department of the Army	107,393	53,060	49.41	103,351	55,441	53.64	81,971	57,152	69.72
Department of the Navy	132,342	58,125	43.92	126,111	55,387	43.92	151,076	66,353	43.92
Department of the Air Force	52,602	6,536	12.43	48,484	6,039	12.46	51,724	6,525	12.62
Defense agencies	6,209	3,342	53.83	15,392	10,099	65.61	2,771	2,079	75.03
Health Affairs, Assistant Secretary of Defense for	0	0	.00	0	0	.00	45,569	4,184	9.18
Department of Education	621	557	89.69	403	356	88.34	351	315	89.74
Department of Energy	59,578	19,170	32.18	60,210	21,411	35.56	57,233	21,376	37.35
Dept of Health & Human Svcs, total	901,846	349,559	38.76	1,032,918	370,776	35.90	1,113,012	429,445	38.58
Alcohol, Drug Abuse, & Mental Health Admin	127,643	15,237	11.94	138,944	16,866	12.14	151,918	52,678	34.68
Health Resources and Svcs Admin	1,521	1,194	78.50	1,585	1,242	78.36	1,394	1,250	89.67
Nat'l Institutes of Health	772,682	333,128	43.11	892,389	352,668	39.52	959,700	375,517	39.13

See explanatory information, if any, and SOURCE at end of table.

Table C-140. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Department of the Interior, total	192,586	117,773	61.15	200,738	111,409	55.50	178,638	116,592	65.27
Bureau of Land Management	110	55	50.00	157	79	50.32	214	107	50.00
Bureau of Mines	30,044	22,113	73.60	35,047	14,019	40.00	26,811	19,840	74.00
Bureau of Reclamation	100	85	85.00	0	0	.00	0	0	.00
Geological Survey	159,077	92,265	58.00	162,435	94,212	58.00	148,563	93,595	63.00
US Fish & Wildlife Svc	3,255	3,255	100.00	3,099	3,099	100.00	3,050	3,050	100.00
Department of Justice, total	29	1	3.45	150	2	1.33	200	2	1.00
Office of Justice Programs	29	1	3.45	150	2	1.33	200	2	1.00
Department of Labor, total	30	30	100.00	109	35	32.11	30	30	100.00
Employment and Training Admin	30	30	100.00	30	25	83.33	30	30	100.00
Pension Benefit Guaranty Corporation	0	0	.00	79	10	12.66	0	0	.00
Department of State	82	82	100.00	85	85	100.00	88	88	100.00
Department of the Treasury, total	2,390	2,125	88.91	2,390	2,125	88.91	2,390	2,125	88.91
Internal Revenue Svc	2,390	2,125	88.91	2,390	2,125	88.91	2,390	2,125	88.91
Department of Veterans Affairs	16,100	10,900	67.70	15,700	10,456	66.60	13,100	8,725	66.60
Other agencies:									
Agency for International Development	169	127	75.15	183	137	74.86	50	37	74.00
Environmental Protection Agency	16,004	12,400	77.48	11,326	10,500	92.71	12,166	11,500	94.53
Library of Congress	373	343	91.96	454	429	94.49	460	457	99.35
Nat'l Aeronautics & Space Admin	443,568	233,387	52.62	534,038	269,563	50.48	597,444	279,976	46.86
Nat'l Archives & Records Admin	356	6	1.69	150	50	33.33	50	50	100.00
Nat'l Science Foundation	12,287	8,602	70.01	12,217	8,548	69.97	14,527	10,164	69.97
Smithsonian Institution	97,999	66,600	67.96	100,000	65,000	65.00	118,000	76,700	65.00
Tennessee Valley Authority	1,859	1,100	59.17	2,178	1,279	58.72	0	0	.00

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-141. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Total, all agencies	4,092,841	2,151,089	52.56	4,451,206	2,289,225	51.43	4,947,775	2,579,157	52.13
Departments:									
Department of Agriculture, total	392,834	228,601	58.19	416,185	242,815	58.34	419,990	253,360	60.33
Agricultural Cooperative Svc	2,812	1,954	69.49	3,298	2,295	69.59	3,097	2,155	69.58
Agricultural Marketing Svc 1/	2,131	1,495	70.15	2,824	1,981	70.15	2,710	1,901	70.15
Agricultural Research Svc	229,525	125,550	54.70	238,114	128,105	53.80	248,012	136,903	55.20
Cooperative State Research Svc	9,233	4,810	52.10	10,656	5,633	52.86	10,266	5,966	58.11
Economic Research Svc	45,246	33,956	75.05	49,037	35,653	72.71	50,458	36,924	73.18
Federal Grain Inspection Svc	377	212	56.23	766	201	26.24	783	634	80.97
Forest Svc	92,244	54,849	59.46	101,584	62,185	61.22	94,877	61,573	64.90
Human Nutrition Information Svc	9,341	4,477	47.93	7,728	5,261	68.08	7,588	5,781	76.19
Nat'l Agricultural Statistics Svc	1,912	1,285	67.21	2,082	1,405	67.48	2,109	1,433	67.95
Office of International Cooperation & Development	13	13	100.00	96	96	100.00	90	90	100.00
Department of Commerce, total	342,788	215,238	62.79	364,592	229,876	63.05	405,565	242,841	59.88
Bureau of the Census	2,317	1,645	71.00	2,726	1,935	70.98	2,699	2,159	79.99
Economic Development Admin	762	12	1.57	100	5	5.00	0	0	.00
Nat'l Inst of Standards & Tech	84,064	57,308	68.17	88,936	60,476	68.00	106,654	72,525	68.00
Nat'l Oceanic & Atmospheric Admin	252,070	152,698	60.58	268,879	163,509	60.81	289,936	161,881	55.83
Nat'l Telecomm & Information Admin	3,575	3,575	100.00	3,951	3,951	100.00	6,276	6,276	100.00
Department of Defense, total	1,105,190	676,899	61.25	1,180,709	710,467	60.17	1,401,486	906,067	64.65
Department of the Army	442,398	291,726	65.94	471,589	301,111	63.85	381,341	316,311	82.95
Department of the Navy	281,858	163,393	57.97	288,175	165,055	57.28	364,768	211,456	57.97
Department of the Air Force	238,908	167,543	70.13	247,988	170,075	68.58	324,894	218,723	67.32
Defense agencies	142,026	54,237	38.19	172,957	74,226	42.92	209,756	86,614	41.29
Health Affairs, Assistant Secretary of Defense for	0	0	.00	0	0	.00	120,727	72,963	60.44
Department of Education	7,666	6,202	80.90	8,637	7,018	81.26	8,868	6,881	77.59
Department of Energy	149,573	34,574	23.12	222,633	36,671	16.47	261,650	37,217	14.22
Dept of Health & Human Svcs, total	693,704	307,265	44.29	783,579	333,071	42.51	802,643	346,089	43.12
Admin on Aging 2/	104	104	100.00	110	110	100.00	110	110	100.00
Admin for Children and Families 2/	381	316	82.94	467	387	82.87	415	344	82.89
Agency for Health Care Policy & Research 3/	19,601	10,122	51.64	23,442	10,797	46.06	14,376	7,391	51.41
Alcohol, Drug Abuse, & Mental Health Admin	89,479	29,253	32.69	95,402	31,664	33.19	102,682	33,849	32.96
Centers for Disease Control	55,542	44,701	80.48	58,872	47,100	80.00	59,505	47,600	79.99
Food & Drug Admin	85,340	72,539	85.00	93,991	79,892	85.00	97,809	83,138	85.00
Health Care Financing Admin	229	10	4.37	231	10	4.33	216	10	4.63
Health Resources and Svcs Admin	2,439	1,274	52.23	2,664	1,322	49.62	2,743	1,330	48.49
Nat'l Institutes of Health	423,767	142,184	33.55	485,557	152,934	31.50	509,034	162,842	31.99
Office of Asst Secy for Health	9,614	593	6.17	7,930	931	11.74	2,828	1,077	38.08
Office of the Secretary	1,333	637	47.79	890	850	95.51	1,000	900	90.00
Social Security Admin	5,875	5,532	94.16	14,023	7,074	50.45	11,925	7,498	62.88
Dept of Housing & Urban Development	6,544	5,000	76.41	5,416	4,000	73.86	8,218	6,000	73.01

See explanatory information, if any, and SOURCE at end of table.

Table C-141. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Department of the Interior, total	275,336	177,237	64.37	295,584	180,771	61.16	280,260	188,178	67.14
Bureau of Land Management	2,438	1,248	51.19	2,372	1,214	51.18	4,453	2,278	51.16
Bureau of Mines	39,513	29,082	73.60	53,346	27,953	52.40	43,629	32,285	74.00
Bureau of Reclamation	7,700	5,480	71.17	10,160	8,638	85.02	7,600	7,055	92.83
Geological Survey	145,445	84,358	58.00	150,415	87,241	58.00	147,145	92,701	63.00
Minerals Management Svc	1,279	603	47.15	939	642	68.37	932	635	68.13
Nat'l Park Svc	18,300	4,300	23.50	19,800	4,800	24.24	20,250	4,900	24.20
Office of the Secretary	15	10	66.67	50	30	60.00	200	120	60.00
Office of Surface Mining Reclamation & Enforcement	1	1	100.00	1	1	100.00	1	1	100.00
US Fish & Wildlife Svc	60,645	52,155	86.00	58,501	50,252	85.90	56,050	48,203	86.00
Department of Justice, total	1,783	1,241	69.60	2,090	1,343	64.26	2,190	1,343	61.32
Bureau of Prisons 4/	1,400	1,100	78.57	1,400	1,100	78.57	1,400	1,100	78.57
Drug Enforcement Admin	100	100	100.00	200	200	100.00	200	200	100.00
Immigration & Naturalization Svc	40	40	100.00	40	40	100.00	40	40	100.00
Office of Justice Programs	243	1	.41	450	3	.67	550	3	.55
Department of Labor, total	8,869	3,701	41.73	13,708	4,141	30.21	12,876	4,161	32.32
Bureau of Labor Statistics	2,500	57	2.28	7,600	59	.78	8,400	61	.73
Employment and Training Admin	2,800	344	12.29	2,286	370	16.19	756	390	51.59
Occupational Safety & Health Admin	392	392	100.00	404	404	100.00	404	404	100.00
Office of the Secretary	2,282	2,282	100.00	2,715	2,705	99.63	2,655	2,645	99.62
Pension Benefit Guaranty Corporation	355	86	24.23	143	43	30.07	80	80	100.00
Pension & Welfare Benefit Admin	540	540	100.00	560	560	100.00	581	581	100.00
Department of State	256	256	100.00	266	266	100.00	277	277	100.00
Department of Transportation, total	41,292	12,715	30.79	42,862	14,333	33.44	85,489	21,390	25.02
Coast Guard	4,385	1,282	29.24	4,937	1,408	28.52	4,948	1,431	28.92
Federal Aviation Admin	16,561	5,728	34.59	15,107	6,732	44.56	54,630	12,852	23.53
Federal Highway Admin	1,257	190	15.12	817	265	32.44	1,583	317	20.03
Federal Railroad Admin	6,706	988	14.73	9,300	1,282	13.78	9,539	1,354	14.19
Maritime Admin	993	701	70.59	1,086	701	64.55	984	734	74.59
Nat'l Highway Traffic Safety Admin	10,022	3,608	36.00	10,310	3,711	35.99	12,372	4,453	35.99
Office of the Secretary	82	82	100.00	93	93	100.00	95	95	100.00
Research & Special Programs Admin	1,286	136	10.58	1,212	141	11.63	1,338	154	11.51
Department of the Treasury, total	15,125	10,873	71.89	16,151	10,907	67.53	14,219	11,087	77.97
Bureau of Engraving and Printing	2,490	19	.76	3,497	40	1.14	1,325	20	1.51
Internal Revenue Svc	9,319	8,285	88.90	9,319	8,285	88.90	9,319	8,285	88.90
Office of Protective Research	176	176	100.00	212	212	100.00	252	252	100.00
Office of Thrift Supervision 5/	2,990	2,243	75.02	3,023	2,270	75.09	3,173	2,380	75.01
United States Customs Svc	150	150	100.00	100	100	100.00	150	150	100.00
Department of Veterans Affairs	176,900	119,761	67.70	196,500	130,869	66.60	205,100	136,597	66.60

See explanatory information, if any, and SOURCE at end of table.

Table C-141. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Other agencies:									
Advisory Commission on Intergovernmental Relations	1,663	1,007	60.55	1,510	1,043	69.07	1,481	1,073	72.45
Agency for International Development	10,743	8,057	75.00	9,033	6,775	75.00	8,127	6,095	75.00
Appalachian Regional Commission	100	100	100.00	35	35	100.00	100	100	100.00
Consumer Product Safety Commission	869	260	29.92	765	160	20.92	875	225	25.71
Environmental Protection Agency	123,097	80,300	65.23	89,388	86,900	97.22	92,811	91,600	98.70
Federal Communications Commission	1,442	1,442	100.00	1,594	1,594	100.00	1,585	1,585	100.00
Federal Trade Commission	957	842	87.98	528	465	88.07	548	482	87.96
International Trade Commission	9,885	5,724	57.91	11,720	6,753	57.62	12,533	7,210	57.53
Library of Congress	1,331	1,256	94.37	1,571	1,529	97.33	1,573	1,562	99.30
Nat'l Aeronautics & Space Admin	689,997	227,153	32.92	743,761	249,534	33.55	887,500	285,810	32.20
Nat'l Archives & Records Admin	155	120	77.42	110	110	100.00	110	110	100.00
Nat'l Science Foundation	688	481	69.91	665	469	70.53	1,036	730	70.46
Nuclear Regulatory Commission	19,919	16,962	85.15	21,563	18,518	85.88	22,555	19,370	85.88
Tennessee Valley Authority	13,935	7,741	55.55	18,811	8,632	45.89	7,310	1,586	21.70
US Arms Control & Disarmament Agency	100	80	80.00	290	150	51.72	200	125	62.50
United States Information Agency	100	1	1.00	950	10	1.05	600	6	1.00

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-142. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Total, all agencies	8,698,789	2,837,404	32.62	9,478,073	3,090,101	32.60	8,802,372	2,876,459	32.68
Departments:									
Department of Agriculture, total	58,465	35,822	61.27	61,507	37,507	60.98	62,927	39,006	61.99
Agricultural Marketing Svc 1/	515	361	70.10	602	422	70.10	570	400	70.18
Agricultural Research Svc	38,206	20,899	54.70	39,519	21,261	53.80	41,353	22,827	55.20
Animal & Plant Health Inspection Svc	15,192	12,154	80.00	16,188	12,950	80.00	16,107	12,886	80.00
Federal Grain Inspection Svc	51	25	49.02	98	25	25.51	97	78	80.41
Forest Svc	4,500	2,382	52.93	5,100	2,849	55.86	4,800	2,815	58.65
Office of International Cooperation & Development	1	1	100.00	0	0	.00	0	0	.00
Department of Commerce, total	27,433	20,787	75.77	30,310	22,936	75.67	35,648	26,996	75.73
Bureau of the Census	1,852	1,315	71.00	2,056	1,460	71.01	2,073	1,658	79.98
Nat'l Inst of Standards & Tech	10,793	7,771	72.00	11,979	8,625	72.00	16,913	12,177	72.00
Nat'l Oceanic & Atmospheric Admin	14,788	11,701	79.12	16,275	12,851	78.96	16,662	13,161	78.99
Department of Defense, total	6,753,105	1,949,773	28.87	7,317,399	2,160,634	29.53	6,542,098	1,934,892	29.58
Department of the Army	1,688,579	628,727	37.23	1,797,852	725,795	40.37	1,632,481	723,441	44.32
Department of the Navy	2,589,399	951,345	36.74	2,627,639	965,395	36.74	2,508,429	921,597	36.74
Department of the Air Force	545,222	51,541	9.45	1,107,365	118,896	10.74	771,568	48,242	6.25
Defense agencies	1,812,214	314,077	17.33	1,700,519	347,358	20.43	1,477,395	226,900	15.36
Test & Evaluation, Deputy Under Secretary Defense	116,802	3,854	3.30	82,930	2,740	3.30	108,678	3,586	3.30
Director, Operational Test and Evaluation	889	229	25.76	1,094	450	41.13	1,143	480	41.99
Health Affairs, Assistant Secretary of Defense for	0	0	.00	0	0	.00	42,404	10,646	25.11
Department of Education	2,380	2,068	86.89	2,599	2,256	86.80	4,042	3,607	89.24
Department of Energy	171,981	43,087	25.05	215,558	58,687	27.23	248,241	58,660	23.63
Dept of Health & Human Svcs, total	379,526	111,235	29.31	428,104	68,462	15.99	444,798	72,538	16.31
Admin on Aging 2/	519	519	100.00	551	551	100.00	502	502	100.00
Admin for Children and Families 2/	1,178	1,178	100.00	1,456	1,456	100.00	1,292	1,292	100.00
Agency for Health Care Policy & Research 3/	3,560	1,014	28.48	911	911	100.00	2,611	740	28.34
Alcohol, Drug Abuse, & Mental Health Admin	162,713	53,582	32.93	177,860	6,506	3.66	188,782	6,975	3.69
Nat'l Institutes of Health	211,409	54,795	25.92	247,226	58,938	23.84	251,338	62,756	24.97
Office of Asst Secy for Health	34	34	100.00	100	100	100.00	150	150	100.00
Social Security Admin	113	113	100.00	0	0	.00	123	123	100.00
Dept of Housing & Urban Development	8,725	6,500	74.50	10,141	7,900	77.90	8,639	6,600	76.40

See explanatory information, if any, and SOURCE at end of table.

Table C-142. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1991, 1992, and 1993

[In thousands of dollars and percentages]

Agency and subdivision	1991			Estimates					
				1992			1993		
	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total	Total	Personnel costs	Percentage of total
Department of the Interior, total	21,595	17,444	80.78	29,571	18,209	61.58	23,056	19,502	84.59
Bureau of Land Management	1,115	559	50.13	1,180	590	50.00	2,063	1,032	50.02
Bureau of Mines	4,995	3,676	73.59	7,716	586	7.59	4,263	3,155	74.01
Bureau of Reclamation	900	541	60.11	1,900	425	22.37	1,000	850	85.00
Geological Survey	4,550	2,639	58.00	5,100	2,958	58.00	3,350	2,110	62.99
Office of the Secretary	35	29	82.86	75	50	66.67	80	55	68.75
US Fish & Wildlife Svc	10,000	10,000	100.00	13,600	13,600	100.00	12,300	12,300	100.00
Department of Justice, total	12,244	3,816	31.17	13,427	4,082	30.40	26,548	4,253	16.02
Bureau of Prisons 4/	450	350	77.78	550	450	81.82	550	450	81.82
Drug Enforcement Admin	200	200	100.00	200	200	100.00	200	200	100.00
Federal Bureau of Investigation	10,810	3,263	30.19	11,427	3,427	29.99	24,298	3,598	14.81
Office of Justice Programs	784	3	.38	1,250	5	.40	1,500	5	.33
Department of Labor, total	2,069	1,218	58.87	1,873	1,157	61.77	1,837	1,217	66.25
Employment and Training Admin	1,510	689	45.63	882	700	79.37	900	780	86.67
Office of the Secretary	489	489	100.00	902	402	44.57	937	437	46.64
Pension Benefit Guaranty Corporation	70	40	57.14	89	55	61.80	0	0	.00
Department of Transportation, total	193,514	63,395	32.76	199,313	64,910	32.57	176,027	60,602	34.43
Coast Guard	13,745	4,361	31.73	15,475	4,788	30.94	15,930	4,996	31.36
Federal Aviation Admin	171,942	55,866	32.49	175,011	57,380	32.79	151,268	52,717	34.85
Federal Highway Admin	1,356	205	15.12	1,183	384	32.46	2,137	427	19.98
Federal Railroad Admin	1,676	247	14.74	2,326	321	13.80	1,997	338	16.93
Office of the Secretary	2,993	2,314	77.31	3,699	1,626	43.96	3,195	1,711	53.55
Research & Special Programs Admin	802	102	12.72	619	111	17.93	500	113	22.60
Federal Transit Admin 5/	1,000	300	30.00	1,000	300	30.00	1,000	300	30.00
Department of the Treasury, total	3,546	715	20.16	2,776	910	32.78	2,252	1,012	44.94
Bureau of Engraving and Printing	828	22	2.66	680	7	1.03	0	0	.00
Financial Crimes Enforcement Network	2,278	330	14.49	1,642	475	28.93	1,798	584	32.48
Internal Revenue Svc	238	212	89.08	238	212	89.08	238	212	89.08
United States Customs Svc	150	150	100.00	150	150	100.00	150	150	100.00
United States Mint	52	1	1.92	66	66	100.00	66	66	100.00
Department of Veterans Affairs	21,300	14,420	67.70	21,250	14,152	66.60	21,250	14,152	66.60
Other agencies:									
Agency for International Development	1,552	1,164	75.00	111	83	74.77	114	83	72.81
Consumer Product Safety Commission	345	345	100.00	300	300	100.00	315	315	100.00
Environmental Protection Agency	28,085	10,500	37.39	9,017	8,000	88.72	11,365	10,700	94.15
Library of Congress	7,344	6,967	94.87	8,581	8,393	97.81	8,506	8,294	97.51
Nat'l Aeronautics & Space Admin	978,453	532,343	54.41	1,083,740	594,484	54.85	1,161,028	606,863	52.27
Nat'l Archives & Records Admin	80	80	100.00	80	80	100.00	80	80	100.00
Tennessee Valley Authority	27,047	15,725	58.14	42,416	16,959	39.98	23,601	7,087	30.03

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ Formerly listed as Federal Prison System

5/ Name changed from Urban Mass Transit Administration on December 18, 1991

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-143A. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	16,727.1	17,488.8	18,297.1	19,550.8	21,020.9	22,882.9	25,127.9	27,041.0	30,635.8	34,065.9	35,766.8
Departments:											
Dept of Agriculture, total	357.9	357.1	381.5	425.6	468.8	537.8	572.4	630.5	687.6	782.5	828.4
Agricultural Coop Svc 1/	1.1	1.1	1.2	1.2	1.4	NA	NA	NA	1.6	1.3	1.7
Agricultural Marketing Svc 2/	NA	NA	NA	NA	NA	NA	NA	.9	1.3	1.2	1.5
Agricultural Rsch Svc 3/	208.7	199.3	210.5	232.8	247.4	294.6	318.4	331.2	371.6	425.9	436.1
Coop State Rsch Svc 4/	73.7	82.1	85.2	95.6	104.2	120.2	134.9	156.6	174.2	199.0	219.8
Econ, Stat & Coop Svc 5/	NA	NA	NA	NA	NA	30.5	32.4	35.6	NA	NA	NA
Econ Rsch Svc	16.8	15.2	18.1	22.2	23.6	NA	NA	NA	NA	38.0	37.0
Econ & Stat Svc 6/	NA	NA	NA	NA	NA	NA	NA	NA	31.1	NA	NA
Forest Svc	56.5	58.3	65.6	72.5	90.3	92.5	86.7	105.7	100.6	101.8	116.0
Human Nutrition Info Svc	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	3.8
Nat'l Agricultural Library	.3	.3	.2	.1	.0	-	-	-	-	-	-
Nat'l Agricultural Stat Svc	.7	.7	.6	1.2	2.0	NA	NA	NA	NA	7.5	7.0
Off of Internat'l Coop & Dev	NA	NA	NA	NA	NA	NA	NA	-	6.4	6.9	4.6
Off of Transportation 2/	NA	NA	NA	NA	NA	NA	NA	.5	.8	.9	.9
Dept of Commerce, total	168.2	186.2	188.2	224.6	233.3	238.2	272.7	307.1	360.6	346.8	286.5
Nat'l Inst of Standards & Tech	34.7	36.8	42.5	47.2	49.1	53.1	59.0	64.8	77.1	84.4	87.6
Nat'l Oceanic & Atmospheric Admin	109.7	114.[illegible]	109.5	127.7	134.5	132.6	164.7	190.1	210.6	209.0	174.1
Other Commerce 7/	23.8	34.[illegible]	36.3	49.7	49.8	52.5	48.9	52.2	72.9	53.5	24.8
Dept of Defense, total	8,297.2	8,597.6	8,979.7	9,363.5	9,445.5	10,308.0	10,935.4	11,733.1	13,706.1	15,993.0	18,482.9
Department of the Army	1,889.8	2,042.4	2,308.6	2,083.0	1,969.6	2,195.0	2,464.3	2,536.2	2,852.9	3,123.7	3,414.4
Department of the Navy	2,501.5	2,498.9	2,715.8	3,126.3	3,320.1	3,582.6	3,919.4	3,926.4	4,507.9	4,916.9	5,394.7
Department of the Air Force	3,426.2	3,588.5	3,442.3	3,567.6	3,625.2	3,902.2	3,969.9	4,428.0	5,323.6	6,756.6	8,209.1
Defense agencies	475.7	461.3	485.2	556.9	507.5	610.5	555.1	814.2	981.4	1,160.0	1,420.0
Defense Civil Preparedness Agency	4.0	3.0	2.3	3.0	2.2	1.2	2.9	NA	NA	NA	NA
Test & Evaluation, Deputy Under Secretary Defense	-	3.4	25.5	26.8	20.9	16.5	23.9	28.3	40.4	35.7	44.8
Dept of Education	NA	NA	NA	NA	NA	NA	NA	136.5	120.9	111.8	150.1
Dept of Energy 8/ 9/	NA	NA	NA	NA	NA	3,593.1	4,413.0	4,956.8	5,660.2	6,125.9	5,785.4

See explanatory information, if any, and SOURCE at end of table.

Table C-143A. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Hlth, Education, & Welfare, total	1,554.5	1,878.4	1,960.6	2,168.2	2,615.0	2,622.2	3,070.2	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	112.6	127.3	114.1	145.1	167.2	179.9	NA	NA	NA	NA
Hlth Svcs & Mental Hlth Admin	236.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nat'l Inst of Education	-	35.8	96.9	82.8	69.8	59.7	74.8	NA	NA	NA	NA
Nat'l Inst of Hlth	1,112.1	1,373.7	1,435.4	1,684.4	2,118.4	2,105.0	2,507.1	NA	NA	NA	NA
Off of Education	108.0	102.2	66.3	53.1	56.8	30.3	25.8	NA	NA	NA	NA
Other HEW	97.5	254.1	234.6	233.8	225.0	260.1	282.6	NA	NA	NA	NA
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	3,172.7	3,554.1	3,997.5	4,052.1
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	NA	NA	NA	NA	NA	NA	184.7	218.1	251.1	292.0
Nat'l Inst of Hlth	NA	NA	NA	NA	NA	NA	NA	2,713.4	3,029.3	3,392.2	3,475.0
Other HHS 10/ 11/	NA	NA	NA	NA	NA	NA	NA	274.5	306.8	354.3	285.0
Dept of Housing & Urban Dev	50.1	47.8	58.4	58.7	60.3	69.0	59.3	74.3	65.8	54.1	37.0
Dept of the Interior, total	213.0	254.1	194.8	266.0	319.7	304.0	339.9	404.3	431.5	436.9	394.9
Bureau of Mines	66.2	68.6	66.7	82.7	113.7	103.7	104.2	121.4	130.8	109.0	105.2
Geological Survey 12/	50.2	62.7	68.7	95.2	115.7	112.2	128.7	144.2	145.2	168.2	150.1
Other Interior 8/	96.6	122.8	59.4	88.1	90.4	88.1	107.0	138.7	155.5	159.7	139.7
Dept of Justice, total	11.9	22.2	40.5	43.8	39.9	33.7	33.5	45.9	45.3	26.1	36.6
Off of Justice Programs	9.6	19.9	34.5	39.2	35.2	27.6	27.1	35.5	35.1	19.2	30.4
Other Justice 13/	2.3	2.3	6.0	4.6	4.7	6.2	6.3	10.4	10.2	6.9	6.2
Dept of Labor 14/	23.0	18.3	22.5	25.4	27.8	28.1	97.6	109.2	137.7	61.6	29.4
Dept of State, total	21.7	20.8	24.8	28.6	27.0	44.1	57.5	3.2	2.2	1.8	1.5
Agency for Internat'l Dev 15/	21.2	19.3	23.2	27.4	25.4	41.8	54.6	NA	NA	NA	NA
Other State	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.8	-
Dept of Transportation, total	287.0	337.3	363.7	339.2	335.7	363.5	377.3	372.4	391.0	432.1	360.0
Fed Aviation Admin	107.1	88.6	115.8	113.7	114.6	102.8	100.2	111.4	109.7	125.9	110.9
Fed Highway Admin	23.3	23.5	33.5	26.8	42.9	53.0	52.9	48.9	53.4	59.1	42.5
Fed Railroad Admin	22.5	41.4	38.3	51.1	48.5	57.3	62.4	58.0	63.5	55.0	25.6
Nat'l Highway Traffic Safety Admin	34.8	47.6	44.4	36.2	33.8	49.5	68.5	53.6	60.3	60.8	60.2
Fed Transit Admin 16/	60.8	72.2	57.8	60.9	48.2	52.1	52.5	50.5	58.9	61.9	69.8
Other Transportation 7/	38.6	63.9	73.9	50.6	47.7	48.8	40.8	49.9	45.2	69.4	51.0
Dept of the Treasury 17/	1.3	1.0	1.1	1.7	3.8	5.0	9.9	9.6	10.9	10.8	13.6
Dept of Veterans Affairs	76.1	82.8	85.7	97.0	109.5	112.8	123.9	123.1	138.6	144.3	140.7

See explanatory information, if any, and SOURCE at end of table.

Table C-143A. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Other agencies:											
Agency for Internat'l Dev 15/	NA	NA	NA	NA	NA	NA	NA	80.3	114.3	166.1	188.6
Atomic Energy Comm	1,551.3	1,624.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Energy Rsch & Dev Admin 9/	NA	NA	1,825.0	2,246.6	2,553.7	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	133.8	147.7	172.2	218.6	265.6	283.0	312.5	388.9	384.7	344.3	336.2
Nat'l Aeronautics & Space Admin	3,422.9	3,315.2	3,256.2	3,266.5	3,669.0	3,449.1	3,432.1	3,395.2	3,605.7	3,705.5	3,252.9
Nat'l Science Foundation	435.0	470.9	584.7	600.4	669.1	674.7	738.6	804.6	848.2	905.0	1,015.1
Nuclear Regulatory Comm	NA	NA	46.1	58.5	76.9	107.8	131.7	145.4	182.8	216.0	208.6
Off of Economic Opportunity	81.2	76.9	-	-	NA	NA	NA	NA	NA	NA	NA
All other agencies 18/ 19/	41.1	50.2	111.3	117.9	100.0	109.0	150.5	148.1	187.5	203.7	166.2

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

10/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

11/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

12/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

13/ The Bureau of Prisons was formerly listed as Federal Prison System.

14/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ Name changed from Urban Mass Transit Administration on December 18, 1991

17/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

18/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

19/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-143B. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	37,959.4	41,330.1	45,860.3	52,090.3	53,214.2	56,556.6	61,476.4	64,276.5	64,292.3	70,843.0	74,052.9
Departments:											
Dept of Agriculture, total	858.8	893.5	923.2	953.0	994.0	1,049.7	1,129.8	1,196.7	1,269.4	1,393.4	1,430.9
Agricultural Coop Svc 1/	2.1	2.2	2.9	2.6	2.8	2.7	2.8	2.7	2.8	3.5	3.1
Agricultural Marketing Svc 2/	.6	1.7	1.3	1.7	1.4	1.6	1.5	2.7	3.7	4.7	4.3
Agricultural Rsch Svc 3/	469.4	479.3	492.9	500.5	526.5	540.4	579.7	603.4	622.9	679.7	721.8
Animal & Plant Health Inspection Svc	NA	NA	NA	4.2	4.9	6.2	7.7	14.0	15.7	19.2	16.7
Coop State Rsch Svc 4/	220.4	239.5	243.6	256.5	274.1	294.8	336.9	361.9	395.6	428.1	433.8
Econ Rsch Svc	36.8	40.9	45.1	46.0	43.2	47.2	50.0	50.7	53.0	57.7	58.3
Fed Grain Inspection Svc	NA	NA	.9	1.0	1.2	1.0	1.1	.6	.7	1.2	1.3
Forest Svc	111.1	109.2	113.8	113.5	120.7	138.0	136.4	144.5	159.8	182.4	174.1
Human Nutrition Info Svc	5.8	7.9	7.2	10.6	9.6	8.2	8.4	9.0	8.9	9.9	11.5
Nat'l Agricultural Stat Svc	7.6	8.2	8.4	8.0	3.5	3.6	2.8	2.7	3.2	3.4	3.4
Off of Internat'l Coop & Dev	4.1	3.6	5.8	7.5	5.1	5.0	2.5	4.3	3.1	3.6	2.6
Off of Transportation 2/	.8	1.0	1.3	1.0	1.0	1.1	-	-	-	-	-
Dept of Commerce, total	335.2	336.3	377.8	380.1	311.1	389.4	403.2	441.5	500.7	581.5	619.9
Nat'l Inst of Standards & Tech	94.0	103.3	106.5	109.2	102.1	111.4	121.5	120.3	144.1	190.3	221.1
Nat'l Oceanic & Atmospheric Admin	222.0	214.7	249.1	248.7	189.2	263.5	269.1	306.7	345.3	380.0	386.1
Other Commerce 5/	19.2	18.2	22.2	22.1	19.8	14.5	12.6	14.4	11.2	11.2	12.8
Dept of Defense, total	21,373.5	22,999.4	27,143.7	32,491.1	33,611.8	34,573.0	36,869.1	37,140.0	34,049.4	37,538.1	39,330.0
Department of the Army	3,848.5	4,017.4	4,230.0	4,278.5	5,009.7	4,899.6	5,241.3	5,797.1	5,724.5	6,689.2	6,172.3
Department of the Navy	6,023.5	6,859.8	8,304.9	9,939.8	9,422.1	9,081.9	9,559.5	9,453.5	7,902.0	8,674.0	8,908.0
Department of the Air Force	9,640.9	10,849.7	12,263.7	14,133.1	14,101.0	14,774.5	15,390.5	14,888.1	13,645.9	14,365.0	15,498.2
Defense agencies	1,817.3	1,217.8	2,290.0	4,068.2	4,995.8	5,690.3	6,501.3	6,853.6	6,685.3	7,748.4	8,340.2
Test & Evaluation, Deputy Under Secretary Defense	43.3	54.7	55.1	71.6	78.8	119.6	145.0	115.8	69.4	51.1	72.0
Director, Operational Test and Evaluation	NA	NA	NA	-	4.4	7.2	31.6	32.0	22.3	10.3	10.8
Health Affairs, Assistant Secretary of Defense for	-	-	-	-	-	-	-	-	-	-	328.5
Dept of Education	111.5	181.3	95.7	125.3	138.3	142.9	155.7	150.7	117.2	133.7	132.9
Dept of Energy 6/ 7/	5,641.9	5,656.4	5,803.0	5,381.7	5,432.7	5,743.7	6,039.0	6,365.3	6,827.1	7,897.9	7,835.3
Dept of Hlth & Humn Svcs, total	4,116.6	4,484.9	5,049.6	5,531.4	5,751.0	6,923.2	7,773.4	8,363.8	9,822.1	10,694.8	11,238.4
Alcohol, Drug Abuse, & Mental Hlth Admin	289.8	276.1	349.8	396.6	476.1	554.8	695.7	842.7	1,460.6	1,583.2	1,680.4
Nat'l Inst of Hlth	3,562.9	3,981.1	4,446.3	4,867.2	4,985.2	6,060.2	6,699.0	7,181.1	7,890.4	8,538.9	8,972.6
Other HHS 8/ 9/	265.8	227.7	253.4	267.6	289.6	308.2	378.7	340.1	471.1	572.7	585.3
Dept of Housing & Urban Dev	30.9	24.9	18.6	13.9	19.7	14.9	20.7	21.7	18.1	24.0	29.9
Dept of the Interior, total	412.7	435.9	417.0	445.4	394.7	419.6	485.3	503.0	556.2	651.5	556.0
Bureau of Mines	102.0	111.4	100.4	131.0	91.2	87.6	92.6	96.7	97.7	117.0	88.9
Geological Survey 10/	171.4	228.4	230.8	226.5	211.2	238.6	300.9	301.3	319.5	391.4	330.5
Other Interior 6/	139.3	96.1	85.8	87.9	92.4	93.4	91.7	105.0	139.0	143.1	136.6

See explanatory information, if any, and SOURCE at end of table.

Table C-143B. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Dept of Justice, total	27.6	26.5	32.7	32.1	39.0	48.1	36.0	38.2	40.4	41.5	56.0
Off of Justice Programs	21.1	19.6	20.1	19.2	22.4	21.6	22.5	24.0	20.7	21.6	23.3
Other Justice 11/	6.5	6.9	12.6	13.0	16.6	26.5	13.4	14.2	19.7	19.9	32.7
Dept of Labor 12/	16.8	14.1	13.7	10.9	20.3	31.8	28.9	45.2	45.6	40.8	50.3
Dept of State, total	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.3	5.3
Dept of Transportation, total	282.3	357.5	430.2	445.2	347.7	332.1	291.5	287.3	361.0	427.2	473.3
Fed Aviation Admin	99.5	167.5	283.7	317.6	190.5	190.2	153.5	185.5	216.0	267.2	277.4
Fed Highway Admin	32.5	51.1	47.5	46.1	76.3	60.1	76.5	44.0	86.1	72.1	100.7
Fed Railroad Admin	18.5	14.7	16.2	15.4	10.9	10.6	7.0	7.0	14.3	29.0	25.2
Nat'l Highway Traffic Safety Admin	51.1	53.2	28.0	19.1	28.9	45.2	28.5	16.9	19.2	23.2	26.7
Fed Transit Admin 13/	36.5	31.2	18.6	8.8	9.4	1.4	2.0	2.3	2.1	2.4	3.2
Other Transportation 5/	44.2	39.8	36.2	38.2	31.8	24.7	23.9	31.6	23.2	33.3	40.1
Dept of the Treasury 14/	15.6	13.6	24.3	23.0	26.4	25.8	23.5	25.2	30.4	30.8	34.2
Dept of Veterans Affairs	164.7	193.6	222.7	185.1	198.8	201.9	186.4	219.0	221.6	229.7	243.3
Other agencies:											
Agency for Internat'l Dev 15/	225.2	207.2	233.0	255.5	263.2	229.1	279.1	347.9	357.8	344.5	439.2
Environmental Protection Agency	312.5	266.1	274.8	306.9	325.9	340.0	343.2	388.5	400.1	453.9	495.2
Nat'l Aeronautics & Space Admin	2,646.2	3,730.6	3,217.1	3,730.6	3,564.3	4,230.4	5,506.1	6,762.2	7,675.0	8,050.0	8,518.6
Nat'l Science Foundation	994.7	1,151.0	1,250.0	1,468.1	1,459.9	1,550.7	1,613.4	1,563.0	1,687.1	1,948.3	2,210.6
Nuclear Regulatory Comm	244.0	198.6	161.1	136.0	124.4	113.5	113.2	223.0	107.5	116.4	125.5
All other agencies 16/ 17/	145.3	157.3	170.5	173.6	188.1	192.5	174.4	189.5	199.8	239.7	228.0

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

6/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

7/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

8/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

9/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

10/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

11/ The Bureau of Prisons was formerly listed as Federal Prison System.

12/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

13/ Name changed from Urban Mass Transit Administration on December 18, 1991

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

17/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-144A. Federal outlays for research and development, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	16,162.7	16,850.4	17,592.5	18,721.2	20,220.2	22,082.7	24,020.1	25,838.2	29,154.2	32,459.1	34,390.7
Departments:											
Dept of Agriculture, total	348.1	348.5	375.6	417.7	460.0	515.3	553.8	608.7	659.8	743.4	807.2
Agricultural Coop Svc 1/	1.1	1.1	1.2	1.2	1.4	NA	NA	NA	1.6	1.3	1.7
Agricultural Marketing Svc 2/	NA	NA	NA	NA	NA	NA	NA	.9	1.3	1.2	1.5
Agricultural Rsch Svc 3/	200.9	194.7	207.1	228.8	242.0	275.6	301.9	312.9	347.5	390.1	417.5
Coop State Rsch Svc 4/	73.1	81.8	85.0	95.5	104.2	120.1	134.9	156.6	174.2	199.0	219.8
Econ, Stat & Coop Svc 5/	NA	NA	NA	NA	NA	30.5	32.4	35.6	NA	NA	NA
Econ Rsch Svc	16.8	15.2	18.1	22.2	23.6	NA	NA	NA	NA	38.0	37.0
Econ & Stat Svc 6/	NA	NA	NA	NA	NA	NA	NA	NA	31.1	NA	NA
Forest Svc	55.2	54.7	63.3	68.6	86.9	89.0	84.6	102.2	97.0	98.6	113.2
Human Nutrition Info Svc	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	3.8
Nat'l Agricultural Library	.3	.3	.2	.1	.0	-	-	-	-	-	-
Nat'l Agricultural Stat Svc	.7	.7	.6	1.2	2.0	NA	NA	NA	NA	7.5	7.0
Off of Internat'l Coop & Dev	NA	NA	NA	NA	NA	NA	NA	-	6.4	6.9	4.6
Off of Transportation 2/	NA	NA	NA	NA	NA	NA	NA	.5	.8	.9	.9
Dept of Commerce, total	164.1	180.4	176.3	214.1	225.5	232.5	269.2	305.2	355.9	345.5	285.4
Nat'l Inst of Standards & Tech	33.7	35.6	40.7	45.3	48.0	52.6	58.1	63.4	76.8	83.9	86.6
Nat'l Oceanic & Atmospheric Admin	107.0	110.9	101.6	119.8	129.4	131.2	162.5	190.1	206.7	208.1	174.1
Other Commerce 7/	23.5	33.9	34.0	49.0	48.1	48.8	48.6	51.7	72.3	53.5	24.8
Dept of Defense, total	8,138.8	8,440.6	8,814.9	9,210.6	9,301.3	10,182.4	10,622.8	11,497.3	13,501.4	15,754.5	18,251.2
Department of the Army	1,859.4	1,996.4	2,277.2	2,053.1	1,949.0	2,180.2	2,457.5	2,534.1	2,845.3	3,114.8	3,400.9
Department of the Navy	2,462.1	2,466.4	2,668.3	3,078.5	3,260.8	3,519.0	3,870.3	3,873.5	4,417.0	4,824.7	5,269.4
Department of the Air Force	3,362.6	3,533.1	3,374.1	3,513.1	3,568.1	3,862.2	3,719.8	4,263.1	5,220.6	6,626.6	8,141.4
Defense agencies	450.7	438.3	467.4	536.2	500.3	603.3	548.5	798.3	978.2	1,152.6	1,394.8
Defense Civil Preparedness Agency	4.0	3.0	2.3	3.0	2.2	1.2	2.9	NA	NA	NA	NA
Test & Evaluation, Deputy Under Secretary Defense	-	3.4	25.5	26.8	20.9	16.5	23.9	28.3	40.4	35.7	44.8
Dept of Education	NA	NA	NA	NA	NA	NA	NA	136.5	120.9	111.8	150.1
Dept of Energy 8/ 9/	NA	NA	NA	NA	NA	3,166.0	3,931.7	4,303.3	4,697.5	5,041.4	4,842.1
Dept of Hlth, Education, & Welfare, total	1,516.7	1,815.7	1,927.3	2,082.3	2,562.6	2,576.6	3,002.2	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	112.6	127.3	114.1	145.1	167.2	179.9	NA	NA	NA	NA
Hlth Svcs & Mental Hlth Admin	236.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nat'l Inst of Education	-	35.8	96.9	82.8	69.8	59.7	74.8	NA	NA	NA	NA
Nat'l Inst of Hlth	1,087.4	1,333.3	1,407.6	1,602.8	2,066.5	2,063.7	2,440.3	NA	NA	NA	NA
Off of Education	94.9	94.0	62.8	53.1	56.8	30.3	25.8	NA	NA	NA	NA
Other HEW	97.5	240.0	232.8	229.5	224.5	255.8	281.4	NA	NA	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-144A. Federal outlays for research and development, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	3,099.3	3,477.2	3,954.9	4,015.3
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	NA	NA	NA	NA	NA	NA	184.4	217.9	250.9	291.7
Nat'l Inst of Hlth	NA	NA	NA	NA	NA	NA	NA	2,641.0	2,953.2	3,350.2	3,439.6
Other HHS 10/ 11/	NA	NA	NA	NA	NA	NA	NA	273.9	306.1	353.8	284.0
Dept of Housing & Urban Dev	50.1	47.8	58.4	58.7	60.3	69.0	59.3	74.3	65.8	54.1	37.0
Dept of the Interior, total	208.2	237.4	192.8	263.6	319.0	299.5	332.3	395.3	422.7	432.8	393.6
Bureau of Mines	66.2	68.6	66.7	82.7	113.7	100.7	104.1	117.1	128.4	106.9	105.0
Geological Survey 12/	50.2	62.1	68.3	95.2	115.7	112.2	128.7	144.2	145.2	168.2	150.1
Other Interior 8/	91.9	106.8	57.9	85.7	89.6	86.6	99.4	134.0	149.2	157.7	138.5
Dept of Justice, total	11.9	22.2	40.5	43.8	39.9	33.7	33.5	45.9	45.3	26.1	36.6
Off of Justice Programs	9.6	19.9	34.5	39.2	35.2	27.6	27.1	35.5	35.1	19.2	30.4
Other Justice 13/	2.3	2.3	6.0	4.6	4.7	6.2	6.3	10.4	10.2	6.9	6.2
Dept of Labor 14/	23.0	18.3	22.5	25.4	27.8	28.1	97.6	109.2	137.7	61.6	29.4
Dept of State, total	18.4	20.2	24.5	28.4	25.9	40.1	57.4	3.2	2.2	1.8	1.5
Agency for Internat'l Dev 15/	17.9	18.7	23.0	27.1	24.3	37.8	54.5	NA	NA	NA	NA
Other State	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.8	-
Dept of Transportation, total	273.7	312.3	328.4	324.5	323.6	346.0	364.1	356.2	374.7	415.9	347.0
Fed Aviation Admin	106.1	88.1	115.2	110.9	112.7	99.8	99.2	101.9	104.2	119.8	106.6
Fed Highway Admin	22.8	23.4	33.1	26.4	42.5	52.6	52.5	48.7	53.1	56.3	42.5
Fed Railroad Admin	16.7	31.8	34.4	42.0	40.5	45.6	51.5	51.7	53.2	48.2	17.4
Nat'l Highway Traffic Safety Admin	34.8	47.6	44.4	36.2	33.8	49.3	68.3	53.4	60.1	60.3	59.7
Fed Transit Admin 16/	56.9	69.0	54.1	59.1	46.9	50.4	52.5	50.5	58.9	61.9	69.8
Other Transportation 7/	36.4	52.4	47.1	50.0	47.2	48.3	40.1	49.9	45.2	69.4	51.0
Dept of the Treasury 17/	1.3	1.0	1.1	1.7	3.7	4.9	9.9	9.5	10.9	10.8	13.6
Dept of Veterans Affairs	66.5	75.0	80.4	94.8	97.7	106.9	114.3	120.3	134.4	137.8	137.7

See explanatory information, if any, and SOURCE at end of table.

Table C-144A. Federal outlays for research and development, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Other agencies:											
Agency for Internat'l Dev 15/	NA	NA	NA	NA	NA	NA	NA	75.8	107.8	159.9	178.3
Atomic Energy Comm	1,297.7	1,363.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Energy Rsch & Dev Admin 9/	NA	NA	1,488.9	1,835.4	2,189.5	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	133.1	144.7	161.3	207.2	259.0	281.3	310.3	386.5	384.7	344.3	336.2
Nat'l Aeronautics & Space Admin	3,372.5	3,270.5	3,181.1	3,181.2	3,548.1	3,344.2	3,307.9	3,262.5	3,465.4	3,558.6	3,140.7
Nat'l Science Foundation	417.5	427.8	570.7	571.3	619.0	649.6	700.5	775.2	830.6	892.3	1,013.6
Nuclear Regulatory Comm	NA	NA	42.3	55.8	73.3	101.7	125.4	137.5	175.4	208.7	208.6
Off of Economic Opportunity	81.2	76.9	-	-	NA	NA	NA	NA	NA	NA	NA
All other agencies 18/ 19/	39.8	47.9	105.5	104.7	84.0	104.9	128.1	136.5	183.8	202.9	165.6

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

10/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

11/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

12/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

13/ The Bureau of Prisons was formerly listed as Federal Prison System.

14/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ Name changed from Urban Mass Transit Administration on December 18, 1991

17/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

18/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

19/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-144B. Federal outlays for research and development, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	36,659.4	39,691.0	44,171.4	50,609.1	51,611.7	54,739.4	59,450.4	62,246.8	61,130.4	66,314.4	69,107.5
Departments:											
Dept of Agriculture, total	826.0	864.3	889.0	918.0	922.9	971.2	1,037.5	1,072.5	1,189.4	1,290.8	1,295.9
Agricultural Coop Svc 1/	2.1	2.2	2.9	2.6	2.8	2.7	2.8	2.7	2.8	3.5	3.1
Agricultural Marketing Svc 2/	.6	1.7	1.3	1.7	1.4	1.6	1.5	2.7	3.7	4.7	4.3
Agricultural Rsch Svc 3/	438.7	454.3	466.2	468.1	463.2	482.1	528.0	548.1	573.5	611.4	633.7
Animal & Plant Health Inspection Svc	NA	NA	NA	4.2	4.9	5.6	7.4	8.0	15.7	16.7	16.7
Coop State Rsch Svc 4/	219.6	235.7	236.7	254.8	267.1	277.3	298.3	303.9	380.1	403.6	391.7
Econ Rsch Svc	36.8	40.9	45.1	46.0	43.2	47.2	50.0	50.7	53.0	57.7	58.3
Fed Grain Inspection Svc	NA	NA	.9	1.0	1.2	1.0	1.1	.6	.7	1.2	1.3
Forest Svc	109.8	108.8	113.1	112.5	119.9	135.8	134.7	139.6	144.7	175.2	169.4
Human Nutrition Info Svc	5.8	7.9	7.2	10.6	9.6	8.2	8.4	9.0	8.9	9.9	11.5
Nat'l Agricultural Stat Svc	7.6	8.2	8.4	8.0	3.5	3.6	2.8	2.7	3.2	3.4	3.4
Off of Internat'l Coop & Dev	4.1	3.6	5.8	7.5	5.1	5.0	2.5	4.3	3.1	3.6	2.6
Off of Transportation 2/	.8	1.0	1.3	1.0	1.0	1.1	-	-	-	-	-
Dept of Commerce, total	334.5	327.0	373.6	372.6	307.0	378.6	394.0	426.8	485.1	560.8	598.1
Nat'l Inst of Standards & Tech	93.3	94.1	102.2	103.3	100.0	101.3	113.0	112.3	135.9	174.0	203.6
Nat'l Oceanic & Atmospheric Admin	222.0	214.7	249.1	247.2	187.1	263.0	268.6	300.1	338.0	375.6	381.8
Other Commerce 5/	19.2	18.2	22.2	22.1	19.8	14.2	12.4	14.4	11.2	11.2	12.8
Dept of Defense, total	21,105.8	22,619.3	26,742.0	32,210.5	33,254.4	34,156.8	36,453.4	36,703.2	33,013.5	35,768.9	37,137.1
Department of the Army	3,827.0	3,983.0	4,176.6	4,223.5	4,949.0	4,837.8	5,201.6	5,750.2	5,659.5	6,658.2	6,149.3
Department of the Navy	5,886.8	6,709.4	8,161.1	9,809.1	9,357.1	9,003.1	9,475.0	9,352.3	7,815.0	8,564.0	8,843.0
Department of the Air Force	9,537.2	10,658.5	12,063.9	14,044.0	13,906.8	14,567.0	15,190.8	14,687.9	12,825.6	12,873.0	13,538.2
Defense agencies	1,811.5	1,213.6	2,285.2	4,062.4	4,958.4	5,622.1	6,409.5	6,765.0	6,621.8	7,612.3	8,195.3
Test & Evaluation, Deputy Under Secretary Defense	43.3	54.7	55.1	71.6	78.8	119.6	145.0	115.8	69.4	51.1	72.0
Director, Operational Test and Evaluation	NA	NA	NA	-	4.4	7.2	31.6	32.0	22.3	10.3	10.8
Health Affairs, Assistant Secretary of Defense for	-	-	-	-	-	-	-	-	-	-	328.5
Dept of Education	111.5	181.3	95.7	124.5	122.6	131.8	153.4	147.9	114.5	129.5	128.3
Dept of Energy 6/ 7/	4,817.5	4,740.3	4,947.7	4,655.8	4,711.3	4,964.7	5,200.6	5,508.4	5,727.2	6,359.1	6,386.5
Dept of Hlth & Humn Svcs, total	4,092.0	4,450.3	5,007.0	5,498.7	5,719.5	6,892.5	7,717.4	8,308.7	9,627.3	10,555.2	11,125.9
Alcohol, Drug Abuse, & Mental Hlth Admin	288.8	272.0	348.4	396.1	475.5	554.8	695.7	842.7	1,460.6	1,583.2	1,680.4
Nat'l Inst of Hlth	3,539.5	3,960.6	4,420.1	4,845.0	4,956.2	6,031.2	6,645.0	7,127.0	7,714.0	8,422.7	8,888.1
Other HHS 8/ 9/	263.7	217.7	238.4	257.6	287.7	306.5	376.7	339.1	452.7	549.3	557.4
Dept of Housing & Urban Dev	30.9	24.9	18.6	13.9	19.7	14.9	20.7	21.7	18.1	24.0	29.9
Dept of the Interior, total	410.3	430.7	412.8	439.3	390.0	414.6	478.4	492.5	535.6	632.3	548.3
Bureau of Mines	101.9	111.3	100.4	131.0	91.2	87.6	90.6	93.6	96.3	115.9	88.3
Geological Survey 10/	169.9	227.2	229.9	225.6	210.4	237.9	299.5	300.0	316.6	386.8	326.7
Other Interior 6/	138.5	92.1	82.5	82.7	88.4	89.1	88.3	98.8	122.7	129.6	133.2

See explanatory information, if any, and SOURCE at end of table.

Table C-144B. Federal outlays for research and development, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Dept of Justice, total	27.6	26.5	32.7	32.1	38.7	48.1	36.0	38.2	40.4	41.5	56.0
Off of Justice Programs	21.1	19.6	20.1	19.2	22.4	21.6	22.5	24.0	20.7	21.6	23.3
Other Justice 11/	6.5	6.9	12.6	13.0	16.3	26.5	13.4	14.2	19.7	19.9	32.7
Dept of Labor 12/	16.8	14.1	13.7	10.9	20.3	31.8	28.9	45.2	45.6	40.8	50.3
Dept of State, total	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.3	5.3
Dept of Transportation, total	272.4	344.6	416.1	429.8	336.6	321.0	278.6	270.6	342.6	408.9	454.9
Fed Aviation Admin	90.3	155.1	270.1	303.3	180.1	179.6	141.0	169.2	199.6	250.3	259.5
Fed Highway Admin	32.5	51.1	47.5	45.5	76.0	60.1	76.5	44.0	86.1	72.1	100.7
Fed Railroad Admin	18.3	14.7	16.2	15.4	10.9	10.3	6.7	7.0	12.8	28.0	25.0
Nat'l Highway Traffic Safety Admin	50.6	52.7	27.5	18.6	28.4	45.2	28.5	16.9	19.2	23.2	26.7
Fed Transit Admin 13/	36.5	31.2	18.6	8.8	9.4	1.4	2.0	2.3	2.1	2.4	3.2
Other Transportation 5/	44.2	39.8	36.2	38.2	31.8	24.4	23.9	31.2	22.8	32.9	39.7
Dept of the Treasury 14/	15.5	13.5	24.2	22.9	26.3	25.7	23.4	25.1	30.3	30.7	34.0
Dept of Veterans Affairs	154.1	189.0	215.1	181.2	195.1	197.3	184.9	206.6	213.4	224.2	237.8
Other agencies:											
Agency for Internat'l Dev 15/	212.8	195.8	220.3	241.5	248.7	216.6	279.1	334.0	344.0	331.3	422.3
Environmental Protection Agency	312.5	266.1	274.8	306.9	325.9	340.0	343.2	388.5	400.1	453.9	495.2
Nat'l Aeronautics & Space Admin	2,538.0	3,538.7	2,970.3	3,431.5	3,250.4	3,831.7	4,974.8	6,324.3	7,071.2	7,271.8	7,710.2
Nat'l Science Foundation	991.8	1,108.0	1,186.0	1,410.7	1,410.0	1,494.0	1,556.7	1,524.9	1,630.6	1,850.1	2,065.2
Nuclear Regulatory Comm	244.0	198.6	161.1	136.0	124.4	113.5	113.2	223.0	107.5	116.4	125.5
All other agencies 16/ 17/	143.9	156.5	169.4	170.8	185.1	190.4	171.4	180.0	188.1	218.9	200.7

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

6/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

7/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

8/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

9/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

10/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

11/ The Bureau of Prisons was formerly listed as Federal Prison System.

12/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

13/ Name changed from Urban Mass Transit Administration on December 18, 1991

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

17/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-145A. Federal outlays for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	564.4	638.4	704.6	829.7	800.6	800.2	1,107.8	1,202.8	1,481.7	1,606.7	1,376.1
Departments:											
Dept of Agriculture, total	9.7	8.6	5.9	7.9	8.8	22.5	18.6	21.7	27.7	39.0	21.3
Dept of Commerce, total	4.1	5.8	11.9	10.5	7.8	5.7	3.5	1.9	4.8	1.3	1.0
Dept of Defense, total	158.4	157.0	164.9	152.9	144.2	125.6	312.6	235.8	204.7	238.5	231.7
Department of the Army	30.4	46.0	31.4	30.0	20.6	14.8	6.8	2.1	7.6	8.9	13.5
Department of the Navy	39.4	32.5	47.5	47.8	59.3	63.6	49.1	52.9	90.9	92.2	125.3
Department of the Air Force	63.6	55.4	68.2	54.5	57.1	40.0	250.1	164.9	103.0	130.0	67.7
Defense agencies	25.0	23.0	17.7	20.6	7.2	7.2	6.6	15.9	3.2	7.4	25.2
Dept of Energy, total 1/ 2/	NA	NA	NA	NA	NA	427.1	481.3	653.5	962.8	1,084.5	943.3
Dept of Hlth, Education, & Welfare, total	37.8	62.7	33.3	85.9	52.4	45.6	68.0	NA	NA	NA	NA
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	73.4	76.9	42.6	36.8
Dept of the Interior, total	4.8	16.7	2.0	2.4	.8	4.4	7.7	9.0	8.7	4.1	1.3
Dept of State, total	3.3	.6	.2	.3	1.2	4.0	.1	-	-	-	-
Dept of Transportation, total	13.3	25.0	35.4	14.7	12.1	17.5	13.2	16.2	16.3	16.2	13.0
Dept of the Treasury, total	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1
Dept of Veterans Affairs	9.6	7.8	5.3	2.2	11.8	5.9	9.7	2.8	4.2	6.5	2.9
Other agencies:											
Atomic Energy Comm	253.6	261.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agency for Internat'l Dev 3/	NA	NA	NA	NA	NA	NA	NA	4.5	6.6	6.2	10.3
Energy Rsch & Dev Admin 2/	NA	NA	336.1	411.2	364.2	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	.7	3.0	10.9	11.3	6.7	1.6	2.2	2.4	-	-	-
Nat'l Aeronautics & Space Admin	50.3	44.7	75.1	85.3	120.9	105.0	124.3	132.7	140.3	146.9	112.2
Nat'l Science Foundation	17.5	43.1	14.0	29.1	50.1	25.1	38.0	29.4	17.6	12.7	1.5
Nuclear Regulatory Comm	NA	NA	3.8	2.6	3.5	6.1	6.2	8.0	7.4	7.3	-
All other agencies	1.3	2.3	5.8	13.2	16.0	4.0	22.3	11.5	3.7	.8	.6

1/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

2/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

3/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-145B. Federal outlays for R&D plant, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	1,299.9	1,639.2	1,688.9	1,481.2	1,602.4	1,817.2	2,026.1	2,029.7	3,162.0	4,528.6	4,945.4
Departments:											
Dept of Agriculture, total	32.8	29.2	34.3	35.0	71.1	78.5	92.3	124.2	80.1	102.5	135.0
Dept of Commerce, total	.7	9.2	4.3	7.4	4.2	10.9	9.1	14.7	15.5	20.7	21.8
Dept of Defense, total	267.7	380.1	401.7	280.6	357.3	416.2	415.6	436.8	1,035.9	1,769.2	2,192.9
Department of the Army	21.5	34.4	53.4	55.0	60.7	61.8	39.7	46.8	65.0	31.0	23.0
Department of the Navy	136.7	150.3	143.8	130.7	65.0	78.8	84.5	101.2	87.0	110.0	65.0
Department of the Air Force	103.7	191.2	199.8	89.1	194.3	207.5	199.7	200.2	820.4	1,492.0	1,960.0
Defense agencies	5.8	4.2	4.7	5.8	37.4	68.1	91.8	88.6	63.5	136.2	144.9
Dept of Education, total	-	-	-	.8	15.8	11.1	2.3	2.8	2.6	4.2	4.6
Dept of Energy, total 1/ 2/	824.5	916.1	855.3	725.8	721.3	779.0	838.3	856.9	1,099.8	1,538.9	1,448.8
Dept of Hlth & Humn Svcs, total	26.5	34.6	42.6	32.7	31.5	30.7	56.0	55.1	194.8	139.6	112.4
Dept of the Interior, total	2.4	5.2	4.2	6.1	4.8	5.1	6.8	10.5	20.7	19.1	7.7
Dept of Justice, total	-	-	-	-	.3	-	-	-	-	-	-
Dept of Transportation, total	9.9	12.9	14.1	15.5	11.2	11.1	12.9	16.7	18.4	18.3	18.4
Dept of the Treasury, total	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2
Dept of Veterans Affairs	10.6	4.6	7.6	3.9	3.7	4.6	1.5	12.4	8.2	5.5	5.5
Other agencies:											
Agency for Internat'l Dev 3/	12.3	11.4	12.8	14.0	14.4	12.6	-	13.9	13.7	13.2	16.9
Nat'l Aeronautics & Space Admin	108.1	191.9	246.8	299.1	313.9	398.7	531.3	437.9	603.8	778.2	808.5
Nat'l Science Foundation	2.9	43.0	64.0	57.3	49.9	56.7	56.7	38.1	56.5	98.2	145.4
All other agencies	1.5	.8	1.2	2.8	3.0	2.1	3.0	9.5	11.7	20.8	27.3

1/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

2/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

3/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-146A. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	17,098.0	17,574.5	18,176.5	19,859.5	21,616.4	24,817.6	27,140.8	29,620.6	31,386.1	34,589.6	37,822.4
Departments:											
Dept of Agriculture, total	357.4	369.4	387.5	427.9	478.6	559.9	645.9	685.7	744.5	794.7	818.7
Agricultural Coop Svc 1/	1.1	1.2	1.4	1.2	1.2	NA	NA	NA	1.6	1.7	1.7
Agricultural Marketing Svc 2/	NA	NA	NA	NA	NA	NA	NA	1.0	1.3	1.1	1.2
Agricultural Rsch Svc 3/	198.0	201.2	208.3	221.6	255.3	310.1	347.5	365.0	405.0	411.6	426.0
Coop State Rsch Svc 4/	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	199.4	219.0
Econ, Stat & Coop Svc 5/	NA	NA	NA	NA	NA	30.5	32.7	35.5	NA	NA	NA
Econ Rsch Svc	16.0	16.9	18.1	21.3	24.0	NA	NA	NA	NA	39.3	39.3
Econ & Stat Svc 6/	NA	NA	NA	NA	NA	NA	NA	NA	31.1	NA	NA
Forest Svc	58.7	59.6	69.6	81.5	82.8	92.1	108.3	111.0	115.2	129.3	112.5
Human Nutrition Info Svc	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	8.5
Nat'l Agricultural Library	.2	.3	.1	.0	.0	-	-	-	-	-	-
Nat'l Agricultural Stat Svc	.7	.7	.6	1.2	1.9	NA	NA	NA	NA	7.5	7.0
Off of Internat'l Coop & Dev	NA	NA	NA	NA	NA	NA	NA	-	5.3	3.9	2.6
Off of Transportation 2/	NA	NA	NA	NA	NA	NA	NA	.7	.8	.9	.9
Dept of Commerce, total	194.7	198.5	192.2	224.9	235.5	251.8	287.7	311.8	347.2	329.3	337.3
Bureau of the Census	3.9	1.0	1.0	1.0	2.5	2.6	3.4	3.1	3.2	3.9	3.8
Econ Dev Admin	6.6	6.3	4.1	10.3	15.1	15.0	38.5	43.1	32.3	28.1	9.6
Maritime Admin 7/	22.9	25.9	25.9	23.9	21.2	19.7	20.6	20.5	19.9	NA	NA
Minority Business Dev Agency	.5	2.1	1.0	4.6	2.0	3.4	-	-	-	-	-
Nat'l Fire Prevention & Control Admin	-	-	-	3.6	6.4	6.6	NA	NA	NA	NA	NA
Nat'l Inst of Standards & Tech	36.6	38.9	41.1	44.6	47.9	53.9	59.1	69.3	76.4	83.0	89.9
Nat'l Oceanic & Atmospheric Admin	120.1	119.3	117.0	135.1	139.1	147.2	163.7	171.2	203.6	202.2	222.0
Nat'l Telecomm & Info Admin	NA	NA	NA	NA	NA	2.9	1.8	4.1	10.7	10.9	11.3
Off of Telecommunications	3.6	3.5	1.6	1.3	.9	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	-	-	-	-	-	.1	.6	-	.0
Patent and Trademark Office	.6	.6	.5	.5	.4	.5	.5	.5	.5	1.1	.7
US Travel & Tourism Admin	-	.8	-	-	-	-	-	-	-	-	-
Dept of Defense, total	8,492.9	8,550.6	8,589.5	9,179.6	9,798.1	11,409.0	11,786.2	12,776.4	14,189.2	16,786.3	20,913.1
Department of the Army	2,103.7	2,030.7	2,042.0	1,920.7	2,026.0	2,458.2	2,556.5	2,772.5	2,993.8	3,257.0	3,785.2
Department of the Navy	2,559.7	2,690.5	2,772.6	3,162.8	3,373.8	3,878.6	4,046.7	4,403.1	4,789.3	5,103.9	6,001.0
Department of the Air Force	3,325.1	3,344.1	3,283.9	3,573.1	3,799.6	4,381.1	4,422.4	4,693.1	5,319.0	7,128.8	9,442.6
Defense agencies	500.4	457.1	464.1	497.4	573.9	659.5	724.5	878.4	1,049.2	1,255.6	1,643.3
Defense Civil Preparedness Agency	4.0	3.2	2.7	1.7	.7	1.3	7.5	NA	NA	NA	NA
Test & Evaluation, Deputy Under Secretary Defense	-	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1	41.0
Dept of Education	NA	NA	NA	NA	NA	NA	NA	166.3	139.4	104.9	128.0
Dept of Energy 8/ 9/	NA	NA	NA	NA	NA	4,097.2	4,935.5	5,483.2	5,777.8	5,896.4	5,622.2

See explanatory information, if any, and SOURCE at end of table.

Table C-146A. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Hlth, Education, & Welfare, total	1,806.1	1,879.1	2,331.0	2,436.5	2,616.7	2,955.9	3,281.5	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	122.2	155.6	139.4	139.5	153.0	180.2	NA	NA	NA	NA
Centers for Disease Control	NA	38.6	44.9	42.6	49.6	55.3	60.1	NA	NA	NA	NA
Food & Drug Admin	30.4	30.4	44.0	36.6	38.0	43.7	65.0	NA	NA	NA	NA
Hlth Care Financing Admin	NA	NA	NA	NA	NA	30.0	19.4	NA	NA	NA	NA
Hlth Resources Admin	-	52.7	55.8	43.3	38.2	7.4	5.5	NA	NA	NA	NA
Hlth Svcs Admin	NA	13.2	12.5	17.3	17.5	17.7	18.2	NA	NA	NA	NA
Hlth Svcs & Mental Hlth Admin	249.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nat'l Inst of Education	-	106.8	75.7	69.9	63.7	64.9	89.5	NA	NA	NA	NA
Nat'l Inst of Hlth	1,321.1	1,355.5	1,777.3	1,918.2	2,092.5	2,411.7	2,654.2	NA	NA	NA	NA
Off of Asst Sec for Education	-	-	-	.6	1.0	1.0	1.3	NA	NA	NA	NA
Off of Asst Sec for Hlth	-	-	-	-	-	32.2	36.2	NA	NA	NA	NA
Off of Child Dev	17.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Education	130.2	58.3	51.5	45.9	58.2	31.1	32.9	NA	NA	NA	NA
Off of Humn Dev Svcs	-	28.8	53.0	64.3	61.9	76.8	75.8	NA	NA	NA	NA
Off of Internat'l Hlth	-	.7	2.7	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	29.8	26.2	23.7	20.0	30.2	NA	NA	NA	NA
Social & Rehabilitation Svc	43.8	53.5	8.9	9.6	18.6	NA	NA	NA	NA	NA	NA
Social Security Admin	13.6	18.5	19.4	22.6	14.4	11.2	12.9	NA	NA	NA	NA
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	3,558.4	3,810.8	3,950.9	3,965.4
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	NA	NA	NA	NA	NA	NA	214.4	233.5	239.7	251.4
Centers for Disease Control	NA	NA	NA	NA	NA	NA	NA	76.3	87.3	74.8	75.0
Food & Drug Admin	NA	NA	NA	NA	NA	NA	NA	66.7	76.6	72.6	75.0
Hlth Care Financing Admin	NA	NA	NA	NA	NA	NA	NA	31.8	45.7	38.6	29.1
Hlth Resources Admin	NA	NA	NA	NA	NA	NA	NA	4.9	5.1	5.0	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.1
Hlth Svcs Admin	NA	NA	NA	NA	NA	NA	NA	28.7	26.7	20.3	NA
Humn Dev Svcs 10/	NA	NA	NA	NA	NA	NA	NA	57.1	49.3	73.7	27.2
Nat'l Inst of Hlth	NA	NA	NA	NA	NA	NA	NA	3,000.8	3,211.2	3,355.5	3,452.6
Off of Asst Sec for Hlth 11/	NA	NA	NA	NA	NA	NA	NA	34.6	29.9	33.1	16.1
Off of the Secretary	NA	NA	NA	NA	NA	NA	NA	24.7	24.0	19.5	13.4
Social Security Admin	NA	NA	NA	NA	NA	NA	NA	18.3	21.4	18.0	15.5
Dept of Housing & Urban Dev	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9	56.0	48.1	28.9
Dept of the Interior, total	232.5	265.8	194.5	307.2	339.1	319.7	374.0	410.8	418.8	430.6	382.4
Bonneville Power Admin 8/	3.2	3.0	2.5	6.1	7.1	NA	NA	NA	NA	14.4	NA
Bureau of Land Management	.8	.7	.7	.8	.7	.9	1.2	1.3	1.7	1.9	5.3
Bureau of Mines	70.9	77.5	66.1	107.6	131.3	105.3	121.1	121.3	114.4	97.4	94.8
Bureau of Reclamation	10.2	9.7	7.4	7.8	8.3	9.9	11.2	12.2	14.1	14.3	10.1
Geological Survey 12/	51.6	67.3	66.6	106.6	110.3	117.5	133.7	145.6	146.3	169.8	152.6
Heritage Conservation & Recreation Svc	.0	.0	.0	.0	.0	.0	-	-	-	-	-
Nat'l Park Svc	1.3	1.5	2.5	8.4	9.3	7.8	7.7	8.9	8.2	10.4	11.2
Off of Coal Rsch	32.4	46.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	1.4	21.3	.5	1.7	1.0	4.5	1.7	1.4	2.2	1.5	.5
Off of Surface Mining Reclamation & Enforcement	NA	NA	NA	NA	NA	-	2.2	5.0	7.8	5.8	1.5
Off of Water Rsch & Tech 12/	38.3	13.3	22.8	19.5	19.0	16.0	28.0	28.0	30.0	21.8	12.3
Off of Saline Water	24.9	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Water Resources Rsch	13.4	13.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
US Fish & Wildlife Svc	22.4	24.9	25.5	48.8	52.0	57.7	67.2	87.1	94.1	93.3	94.2

See explanatory information, if any, and SOURCE at end of table.

Table C-146A. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Justice, total	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0	41.5	26.5	26.7
Bureau of Prisons 13/	.5	.5	.5	.6	.8	1.1	3.6	3.4	2.1	2.5	1.7
Drug Enforcement Admin	1.2	1.6	5.0	1.5	2.5	3.0	1.9	2.4	2.7	1.3	3.2
Fed Bureau of Investigation	.7	.7	1.9	1.2	1.2	1.4	1.8	3.1	1.4	.7	2.7
Immigratn & Naturalizatn Svc	-	-	-	.1	.1	.3	.4	.2	.3	.1	.6
Off of Justice Programs	21.0	30.4	27.3	40.9	29.2	21.8	51.6	32.2	33.2	21.0	18.0
Off of Legal Policy	-	-	-	-	-	-	1.6	1.7	1.8	.8	.4
Dept of Labor, total	23.1	19.9	23.8	25.4	28.5	29.6	97.8	137.0	138.1	62.2	25.4
Bureau of Labor Stat	4.8	1.0	1.7	1.8	1.3	1.4	1.2	.9	.9	.3	.3
Employment Standards Admin	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3	4.9	3.2	1.4
Employment & Training Admin	15.6	14.6	16.1	15.5	17.5	16.8	86.6	120.8	121.7	52.4	16.1
Labor-Management Svcs Admin 14/	.7	.9	1.2	.8	.7	3.3	2.8	3.2	2.8	1.8	.7
Occupational Safety & Hlth Admin	.2	.9	1.4	2.0	2.9	3.4	1.3	5.1	6.3	3.0	4.9
Off of the Secretary	.2	1.2	2.5	2.0	1.8	.2	2.2	1.6	1.4	1.1	.9
Pension Benefit Guaranty Corporation	NA	NA	NA	NA	NA	NA	NA	NA	NA	.5	1.1
Dept of State, total	29.2	26.6	22.9	27.9	44.5	77.6	85.4	3.2	2.2	1.8	1.5
Agency for Internat'l Dev 15/	28.6	25.1	21.4	26.7	42.9	75.3	82.6	NA	NA	NA	NA
Departmental funds	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.8	NA
Dept of Transportation, total	336.3	348.9	383.2	324.8	308.7	377.1	422.4	392.7	384.5	434.5	322.0
Coast Guard	39.0	44.8	26.6	16.5	12.8	19.5	24.4	21.1	18.0	28.3	20.0
Fed Aviation Admin	102.4	81.0	125.4	109.0	100.1	106.4	111.5	120.4	108.8	128.9	99.4
Fed Highway Admin	20.8	23.7	41.2	45.1	29.3	55.9	52.1	53.5	58.3	51.2	40.3
Fed Railroad Admin	36.6	46.9	37.4	39.4	60.5	58.5	65.7	56.1	56.4	46.1	24.5
Maritime Admin 7/	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.2	11.1
Nat'l Highway Traffic Safety Admin	50.0	54.6	53.6	34.0	31.4	47.2	66.5	56.8	63.8	66.4	55.9
Off of the Secretary	23.6	23.6	29.7	31.3	25.8	28.0	31.7	11.7	10.8	10.1	3.3
Rsch & Special Programs Admin	NA	NA	NA	NA	NA	-	.9	15.0	14.0	13.1	6.1
Fed Transit Admin 16/	63.9	74.4	69.2	49.4	48.8	61.6	69.6	58.0	54.4	78.2	61.4
Dept of the Treasury, total	1.3	1.0	1.1	1.7	3.8	4.9	9.9	9.6	12.1	11.4	13.4
Bureau of Alcohol, Tobacco, & Firearms	-	-	-	-	-	1.1	2.0	2.5	1.6	.3	-
Bureau of Engraving & Printing	1.3	1.0	1.1	1.7	2.8	2.5	3.7	2.1	2.3	2.7	4.8
Internal Revenue Svc	-	-	-	-	-	-	2.4	3.6	4.0	4.2	5.4
Off of Protective Rsch	NA	NA	NA	NA	NA	NA	NA	NA	.4	.6	-
US Customs Svc	-	-	-	-	1.1	1.3	1.8	1.4	3.9	3.5	3.2
Dept of Veterans Affairs	71.3	84.6	86.9	97.0	109.5	112.9	118.1	132.1	137.8	159.2	140.1
Other agencies:											
Action	-	-	.2	.2	.1	.5	1.6	1.6	-	-	-
Advisory Commission on Intergovernmental Relations	.7	.9	1.1	1.2	1.0	1.5	1.7	1.7	2.2	2.2	2.0
Agency for Internat'l Dev 15/	NA	NA	NA	NA	NA	NA	NA	112.9	155.6	142.2	205.9
Appalachian Regional Comm	-	-	-	-	.7	.7	.5	.9	.8	.4	.4
Atomic Energy Comm	1,544.4	1,712.3	NA	NA	NA	NA	NA	NA	NA	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-146A. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Civil Svc Comm	1.0	2.4	3.1	4.4	4.0	3.9	NA	NA	NA	NA	NA
Community Svcs Admin	NA	NA	21.7	23.1	10.2	24.0	24.3	20.7	30.3	18.3	NA
Consumer Product Safety Comm	-	.3	4.3	7.9	5.8	6.7	4.1	6.6	6.2	.5	0.2
Energy Rsch & Dev Admin 9/	NA	NA	1,881.6	2,439.9	2,902.6	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	123.0	205.1	170.5	259.7	265.4	297.6	389.3	412.5	345.0	325.7	335.1
Fed Communications Comm	.8	1.1	.9	1.1	1.5	2.0	2.4	2.9	3.4	1.8	1.2
Fed Emergency Management Agency	NA	NA	NA	NA	NA	NA	7.0	12.6	11.8	11.6	9.2
Fed Energy Admin	NA	NA	-	1.3	3.0	NA	NA	NA	NA	NA	NA
Fed Home Loan Bank Board 17/	.5	.5	.7	.7	.8	1.7	1.0	.9	1.2	1.0	2.7
Fed Trade Comm	.6	.7	.9	.9	.9	1.1	1.4	1.5	3.0	1.1	1.2
General Svcs Admin 18/	.3	.5	1.8	1.8	1.1	.9	2.7	.5	.2	.6	1.0
Internat'l Trade Comm	-	-	-	-	1.5	2.6	3.1	3.4	2.1	3.4	3.8
Interstate Commerce Comm	-	-	-	-	.1	.1	.3	.2	.1	-	-
Library of Congress	2.3	2.6	2.2	2.6	3.0	3.8	4.9	5.9	6.9	4.9	5.7
Nat'l Aeronautics & Space Admin	3,202.5	3,130.2	3,100.5	3,207.1	3,529.0	3,288.9	3,495.6	3,725.9	3,393.2	3,708.9	3,191.6
Nat'l Science Foundation	473.5	537.0	568.1	618.1	661.8	724.1	788.5	838.1	900.5	976.2	976.8
Nuclear Regulatory Comm	NA	NA	46.1	67.2	98.1	119.4	140.8	157.4	190.4	227.3	220.3
Off of Economic Opportunity	92.7	87.8	-	-	NA	NA	NA	NA	NA	NA	NA
Off of Emergency Preparedness	.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Personnel Management	NA	NA	NA	NA	NA	NA	4.5	6.0	6.8	8.4	-
Off of Science and Tech	2.0	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Telecomm Policy	1.2	.6	.3	4.1	4.6	-	-	NA	NA	NA	NA
Off of Thrift Supervision 17/	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Small Business Admin	-	-	-	.2	.1	.5	-	-	-	-	-
Smithsonian Inst	21.3	24.1	25.2	25.2	26.2	29.8	35.1	37.9	41.9	45.3	52.9
Spec Action Office for Drug Abuse Prevention	-	12.0	11.1	3.8	-	NA	NA	NA	NA	NA	NA
Tennessee Valley Authority	11.6	18.8	22.9	28.8	28.9	30.2	53.4	89.2	80.7	69.3	85.3
US Arms Control & Disarmament Agency	1.9	2.0	1.1	1.0	1.4	2.2	3.6	3.5	3.8	2.4	1.9
US Information Agency 19/	.1	.1	1	.1	.1	.1	.1	.1	.1	1.5	.1

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

10/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

11/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

12/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

13/ The Bureau of Prisons was formerly listed as Federal Prison System.

14/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ Name changed from Urban Mass Transit Administration on December 18, 1991

17/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

18/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

19/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-146B. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	40,009.6	44,012.1	50,180.4	52,951.2	57,099.7	58,826.5	63,571.6	65,951.9	64,990.5	75,585.6	75,045.2
Departments:											
Dept of Agriculture, total	881.5	905.4	983.6	1,007.9	1,059.6	1,151.8	1,127.5	1,210.6	1,381.3	1,511.7	1,440.9
Agricultural Coop Svc 1/	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.5	3.1
Agricultural Marketing Svc 2/	1.4	1.5	1.7	1.6	1.5	1.6	1.5	2.7	4.2	4.7	4.3
Agricultural Rsch Svc 3/	466.8	480.1	498.7	532.6	522.4	561.2	578.7	589.9	655.7	717.0	753.1
Animal & Plant Health Inspection Svc	NA	NA	NA	4.2	4.9	6.2	7.7	14.0	15.7	19.2	16.7
Coop State Rsch Svc 4/	242.3	245.7	294.3	278.6	338.3	374.7	339.4	371.1	438.3	499.9	404.3
Econ Rsch Svc	38.8	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	58.7	60.4
Fed Grain Inspection Svc	NA	NA	.9	1.0	1.2	1.0	1.1	.6	.7	1.2	1.3
Forest Svc	108.1	108.8	114.8	114.0	127.1	138.4	133.0	163.5	193.1	191.7	182.3
Human Nutrition Info Svc	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.8	10.8
Nat'l Agricultural Stat Svc	7.6	8.2	8.4	8.0	3.4	3.6	2.9	2.8	3.2	3.4	3.5
Off of Internat'l Coop & Dev	5.3	8.2	7.7	7.0	5.6	5.0	2.5	3.6	3.1	1.5	1.3
Off of Transportation 2/	.8	1.0	1.2	1.0	1.1	1.1	-	-	-	-	-
Dept of Commerce, total	335.7	367.6	403.0	408.4	407.5	400.2	407.0	453.5	505.4	645.2	648.1
Bureau of the Census	4.3	4.4	4.9	4.7	4.7	5.7	4.9	6.9	6.6	6.1	5.9
Econ Dev Admin	5.3	5.1	13.0	10.3	5.0	4.2	1.0	1.2	1.4	.5	-
Nat'l Inst of Standards & Tech	95.7	104.9	104.7	108.5	100.7	118.7	124.2	131.0	148.4	235.8	253.7
Nat'l Oceanic & Atmospheric Admin	222.0	244.3	269.8	276.2	289.3	263.5	269.1	306.7	345.3	398.9	382.2
Nat'l Telecomm & Info Admin	8.3	8.7	9.1	8.4	7.8	8.1	7.8	7.7	3.6	4.0	6.3
Off of the Secretary	.0	.1	1.4	.3	.0	-	-	-	-	-	-
Dept of Defense, total	23,305.3	25,902.1	30,322.4	33,224.1	35,708.7	35,684.6	38,076.2	37,755.5	33,387.9	40,249.8	38,619.1
Department of the Army	4,024.4	4,281.7	4,623.7	4,863.3	5,085.2	4,898.8	5,704.5	5,737.2	6,172.5	6,660.2	5,758.3
Department of the Navy	6,209.9	7,779.0	9,309.5	9,747.9	9,576.8	9,588.9	9,755.7	9,646.6	7,860.0	9,335.0	8,777.0
Department of the Air Force	10,951.3	12,377.0	13,552.2	13,723.9	15,618.0	15,011.0	15,487.6	15,153.6	11,917.3	15,230.8	14,903.8
Defense agencies	2,058.1	1,405.7	2,786.3	4,771.9	5,291.8	5,957.3	6,973.3	6,996.8	7,200.9	8,814.9	8,565.3
Test & Evaluation, Deputy Under Secretary Defense	61.6	58.6	50.6	117.1	128.5	160.3	140.7	188.7	223.7	196.0	287.3
Director, Operational Test and Evaluation	NA	NA	NA	-	8.4	68.2	14.4	32.6	13.6	12.8	13.0
Health Affairs, Assistant Secretary of Defense for	-	-	-	-	-	-	-	-	-	-	314.4
Dept of Education	111.7	115.7	126.0	127.9	153.5	145.9	161.0	178.8	175.2	201.7	212.5
Dept of Energy 5/ 6/	5,294.4	5,526.0	5,834.4	5,430.6	5,529.4	5,951.4	6,065.6	6,546.6	7,203.2	8,354.5	8,396.1
Dept of Hlth & Humn Svcs, total	4,400.4	4,861.8	5,493.2	5,695.5	6,643.0	7,177.6	7,981.4	8,513.4	9,842.3	10,985.9	11,243.1
Admin on Aging 7/	NA	NA	NA	NA	NA	NA	NA	NA	20.6	20.6	19.6
Admin for Children & Families 7/	NA	NA	NA	NA	NA	NA	NA	-	129.0	155.3	142.2
Agency for Hlth Care Policy & Rsch 8/	NA	NA	NA	NA	NA	NA	NA	49.7	101.1	106.3	73.9
Alcohol, Drug Abuse, & Mental Hlth Admin	304.0	337.5	377.9	396.6	476.1	554.8	695.7	842.7	1,460.6	1,[illegible]3.2	1,680.4
Centers for Disease Control	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	[illegible]7.4	118.3
Food & Drug Admin	102.7	80.8	95.1	87.4	85.8	91.5	122.0	122.0	143.5	160.2	170.2
Hlth Care Financing Admin	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	78.4	36.0
Hlth Resources & Svcs Admin	13.3	18.5	19.7	12.3	9.3	10.0	10.5	11.9	11.0	12.0	12.1
Humn Dev Svcs 7/	23.4	18.3	24.3	54.6	53.0	54.0	101.7	95.4	NA	NA	NA
Nat'l Inst of Hlth	3,806.8	4,285.2	4,856.5	5,034.5	5,886.2	6,309.9	6,833.8	7,221.3	7,763.4	8,707.7	8,960.6
Off of Asst Sec for Hlth 8/	16.6	18.1	18.6	17.3	21.2	21.0	27.2	6.9	10.0	8.9	4.4
Off of the Secretary	14.4	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2
Social Security Admin	10.8	13.5	10.4	5.6	9.8	14.7	15.8	13.9	11.9	30.8	20.2
Dept of Housing & Urban Dev	32.1	18.2	18.5	15.3	16.3	18.4	18.0	19.3	27.8	28.5	36.6

See explanatory information, if any, and SOURCE at end of table.

Table C-146B. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Dept of the Interior, total	384.9	416.1	395.9	389.6	415.7	426.1	479.8	522.6	615.1	631.8	549.2
Bureau of Land Management	3.9	3.8	4.4	3.4	3.7	3.7	3.0	2.8	8.8	9.3	16.2
Bureau of Mines	88.6	108.8	89.9	84.4	88.8	91.3	101.2	102.3	108.2	112.0	75.3
Bureau of Reclamation	10.0	10.4	13.2	10.2	10.7	4.4	4.2	5.8	8.7	13.2	9.3
Geological Survey 9/	158.4	209.9	215.7	219.5	227.6	236.9	281.1	309.7	359.8	366.8	329.2
Minerals Management Svc	1.5	1.5	1.4	1.1	1.0	1.2	2.2	2.0	2.9	4.7	4.7
Nat'l Park Svc	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	29.0	29.5
Off of the Secretary	7.4	.1	1.9	1.0	-	.4	.4	.2	.6	.9	2.8
Off of Surface Mining Reclamation & Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	.3	.4
Off of Water Rsch & Tech 9/	2.2	3.6	-	-	-	-	-	-	-	-	-
US Fish & Wildlife Svc	97.7	63.3	52.4	50.5	64.3	67.8	67.5	78.9	97.6	95.7	81.8
Dept of Justice, total	31.4	24.5	36.0	36.5	53.5	43.1	38.2	40.5	48.9	50.4	55.4
Bureau of Prisons 10/	1.7	1.6	1.5	3.0	7.1	6.0	5.1	4.5	5.2	5.3	5.6
Drug Enforcement Admin	2.5	1.9	1.6	2.5	2.2	2.5	2.7	2.4	2.7	1.8	1.8
Fed Bureau of Investigation	2.5	1.0	9.5	7.2	19.1	12.7	7.7	8.2	10.8	11.4	24.3
Immigratn & Naturalizatn Svc	.6	.6	.4	.4	.4	.3	.1	.4	.4	.4	.4
Off of Justice Programs	23.8	19.5	22.7	23.2	24.6	21.5	22.5	25.0	29.8	31.4	23.3
Off of Legal Policy	.3	-	.3	.2	.1	-	-	-	-	-	-
Dept of Labor, total	19.9	16.3	13.3	10.4	21.6	35.6	35.4	73.0	44.0	39.0	44.1
Bureau of Labor Stat	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	8.4
Employment Standards Admin	1.4	.9	.0	-	1.0	.1	.1	.1	-	-	-
Employment & Training Admin	9.0	6.1	3.5	3.5	5.7	14.9	15.7	53.4	22.1	16.6	16.8
Labor-Management Relations and Coop Programs 11/	NA	.3	.3	.2	.3	.4	.3	-	-	-	-
Labor-Management Svcs Admin 11/	.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Hlth Admin	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.2	3.2
Off of the Secretary	1.5	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	8.6	12.8
Pension Benefit Guaranty Corporation	1.1	.3	.2	.1	.3	.3	.3	.5	.5	.6	.5
Pension & Welfare Benefit Admin	NA	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.5	2.4
Dept of State, total	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.3	5.3
Dept of Transportation, total	369.6	465.2	437.9	397.5	336.2	318.5	318.9	388.3	398.3	489.6	517.3
Coast Guard	19.6	19.5	19.0	16.9	17.0	21.4	17.9	20.6	25.9	29.2	29.9
Fed Aviation Admin	147.6	282.6	294.8	271.5	177.7	173.8	162.3	237.5	236.4	275.6	277.1
Fed Highway Admin	50.4	46.4	49.0	46.1	76.9	74.1	91.0	91.5	86.9	117.9	134.6
Fed Railroad Admin	16.5	19.2	15.0	15.4	11.2	10.4	9.0	10.2	17.6	30.3	25.8
Maritime Admin 12/	15.0	9.9	13.9	9.4	5.8	.5	-	.9	1.7	1.8	1.7
Nat'l Highway Traffic Safety Admin	52.5	57.4	28.6	22.9	28.4	28.3	29.7	16.9	21.4	25.8	35.8
Off of the Secretary	4.9	4.9	4.8	5.1	4.5	5.7	5.5	6.8	4.3	5.1	4.6
Rsch & Special Programs Admin	6.2	5.2	2.7	2.0	2.1	2.1	2.0	2.4	2.4	2.5	2.7
Fed Transit Admin 13/	57.0	20.1	10.2	8.2	12.6	2.3	1.4	1.6	1.7	1.5	5.1
Dept of the Treasury, total	15.6	13.9	24.4	24.2	27.0	26.2	25.7	25.7	31.0	31.4	34.7
Bureau of Engraving & Printing	3.9	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	4.2	1.3
Financial Crimes Enforcement Network	-	-	-	-	-	-	-	-	2.3	2.0	2.1
Internal Revenue Svc	8.0	8.2	15.9	14.2	14.6	14.4	14.4	16.8	17.9	17.9	17.9
Off of Protective Rsch	.3	.2	.6	.5	.5	.4	.6	.5	.4	.6	.6
Off of Thrift Supervision 14/	NA	NA	NA	NA	NA	NA	NA	-	3.0	3.0	3.2
US Customs Svc	3.4	1.9	2.3	4.9	7.1	9.3	6.9	6.3	3.8	3.2	9.0
US Mint	-	-	.6	.3	.2	.1	2.0	.1	.1	.6	.6
Dept of Veterans Affairs	171.9	196.4	229.9	191.0	215.4	234.8	245.7	241.0	220.0	247.7	243.9

See explanatory information, if any, and SOURCE at end of table.

Table C-146B. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Other agencies:											
Advisory Commission on Intergovernmental Relations	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.5	1.5
Agency for Internat'l Dev 15/	232.0	245.0	227.2	258.7	224.3	210.6	279.1	347.9	392.8	375.8	389.2
Appalachian Regional Comm	.2	.5	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Comm	.5	1.3	2.4	2.0	2.2	1.1	1.3	1.1	1.3	1.2	1.5
Environmental Protection Agency	240.7	261.2	320.4	317.3	348.2	347.4	380.3	419.7	432.6	491.5	519.7
Fed Communications Comm	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Fed Emergency Management Agency	3.3	11.5	4.1	NA	NA	NA	NA	NA	NA	NA	NA
Fed Home Loan Bank Board 14/	3.0	2.6	2.8	3.3	3.4	3.4	NA	NA	NA	NA	NA
Fed Trade Comm	1.4	1.6	1.7	1.8	.5	.4	.4	.5	1.0	.5	.5
General Svcs Admin 16/	.5	2.4	.4	20.0	1.6	2.3	.5	18.0	22.6	6.5	-
Internat'l Trade Comm	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	11.7	12.5
Library of Congress	7.4	7.5	7.1	6.6	6.5	7.1	8.0	8.4	9.0	10.6	10.5
Nat'l Aeronautics & Space Admin	2,762.9	3,066.1	3,561.5	3,694.8	4,096.5	4,758.6	5,913.0	7,060.3	8,003.8	8,849.2	9,352.1
Nat'l Archives and Records Admin 16/	NA	NA	.5	1.0	1.1	.7	.3	.4	.7	.3	.3
Nat'l Science Foundation	1,065.2	1,248.0	1,419.1	1,406.5	1,531.8	1,589.6	1,724.0	1,728.8	1,944.8	2,037.0	2,398.3
Nuclear Regulatory Comm	207.3	190.7	150.0	123.8	122.5	108.5	114.8	217.5	108.8	118.9	127.7
Off of Thrift Supervision 14/	NA	NA	NA	NA	NA	NA	4.1	4.1	-	-	-
Smithsonian Inst	57.0	63.8	72.7	64.0	74.4	75.8	83.6	88.8	99.5	109.2	124.6
Tennessee Valley Authority	63.3	68.3	80.0	78.3	78.2	87.7	62.8	69.8	73.1	92.7	56.1
US Arms Control & Disarmament Agency	1.0	1.3	1.1	.9	4.6	3.4	2.8	.2	.4	2.1	1.0
US Information Agency 17/	.0	1.4	.1	2.0	3.5	.4	.1	.5	.1	1.0	.6

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

7/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

8/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

9/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

10/ The Bureau of Prisons was formerly listed as Federal Prison System.

11/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

12/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

13/ Name changed from Urban Mass Transit Administration on December 18, 1991

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

17/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-147A. Federal obligations for research and development, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	16,495.9	16,800.2	17,410.1	19,038.8	20,779.7	23,450.4	25,845.1	28,145.1	29,830.4	33,103.9	36,432.6
Departments:											
Dept of Agriculture, total	349.6	366.5	378.7	420.1	462.4	547.0	621.3	663.0	687.6	774.0	797.3
Agricultural Coop Svc 1/	1.1	1.2	1.4	1.2	1.2	NA	NA	NA	1.6	1.7	1.7
Agricultural Marketing Svc 2/	NA	NA	NA	NA	NA	NA	NA	1.0	1.3	1.1	1.2
Agricultural Rsch Svc 3/	193.8	199.5	203.5	217.1	242.1	298.9	325.5	345.8	351.8	394.1	404.9
Coop State Rsch Svc 4/	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	199.4	219.0
Econ, Stat & Coop Svc 5/	NA	NA	NA	NA	NA	30.5	32.7	35.5	NA	NA	NA
Econ Rsch Svc	16.0	16.9	18.1	21.3	24.0	NA	NA	NA	NA	39.3	39.3
Econ & Stat Svc 6/	NA	NA	NA	NA	NA	NA	NA	NA	31.1	NA	NA
Forest Svc	55.2	58.4	65.5	78.2	79.9	90.3	105.6	107.5	111.5	126.1	112.1
Human Nutrition Info Svc	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	8.5
Nat'l Agricultural Library	.2	.3	.1	.0	.0	-	-	-	-	-	-
Nat'l Agricultural Stat Svc	.7	.7	.6	1.2	1.9	NA	NA	NA	NA	7.5	7.0
Off of Internat'l Coop & Dev	NA	NA	NA	NA	NA	NA	NA	-	5.3	3.9	2.6
Off of Transportation 2/	NA	NA	NA	NA	NA	NA	NA	.7	.8	.9	.9
Dept of Commerce, total	187.3	190.6	180.6	215.4	228.9	244.7	283.7	309.4	342.5	327.9	336.3
Bureau of the Census	3.9	1.0	1.0	1.0	2.5	2.6	3.4	3.1	3.2	3.9	3.8
Econ Dev Admin	6.6	6.3	4.1	10.3	15.1	15.0	38.5	43.1	32.3	28.1	9.6
Maritime Admin 7/	22.2	23.8	23.1	22.9	19.0	14.8	19.6	19.6	19.4	NA	NA
Minority Business Dev Agency	.5	2.1	1.0	4.6	2.0	3.4	-	-	-	-	-
Nat'l Fire Prevention & Control Admin	-	-	-	3.6	6.4	6.6	NA	NA	NA	NA	NA
Nat'l Inst of Standards & Tech	34.7	36.8	40.2	43.2	47.4	53.2	58.3	67.8	76.2	82.5	88.8
Nat'l Oceanic & Atmospheric Admin	115.2	115.6	109.1	128.0	135.1	145.7	161.5	171.2	199.8	201.4	222.0
Nat'l Telecomm & Info Admin	NA	NA	NA	NA	NA	2.9	1.8	4.1	10.7	10.9	11.3
Off of Telecommunications	3.6	3.5	1.6	1.3	.9	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	-	-	-	-	-	.1	.6	-	.0
Patent and Trademark Office	.6	.6	.5	.5	.4	.5	.5	.5	.5	1.1	.7
US Travel & Tourism Admin	-	.8	-	-	-	-	-	-	-	-	-
Dept of Defense, total	8,318.1	8,404.2	8,420.4	9,012.5	9,654.7	10,963.4	11,553.6	12,506.2	13,981.0	16,508.6	20,622.6
Department of the Army	2,064.2	2,013.6	2,009.9	1,896.7	2,013.7	2,441.9	2,548.9	2,768.7	2,980.0	3,244.2	3,760.5
Department of the Navy	2,519.4	2,654.8	2,718.5	3,100.2	3,328.0	3,817.4	3,998.4	4,335.0	4,706.1	5,006.0	5,845.1
Department of the Air Force	3,254.3	3,273.5	3,216.2	3,513.5	3,726.6	4,031.1	4,262.3	4,525.6	5,211.0	6,969.2	9,357.9
Defense agencies	476.4	434.1	448.9	476.5	561.6	641.4	707.9	847.6	1,046.0	1,248.2	1,618.1
Defense Civil Preparedness Agency	4.0	3.2	2.7	1.7	.7	1.3	7.5	NA	NA	NA	NA
Test & Evaluation, Deputy Under Secretary Defense	-	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1	41.0
Dept of Education	NA	NA	NA	NA	NA	NA	NA	166.3	139.4	104.9	128.0
Dept of Energy 8/ 9/	NA	NA	NA	NA	NA	3,536.2	4,244.8	4,638.8	4,753.7	4,918.2	4,708.2

See explanatory information, if any, and SOURCE at end of table.

Table C-147A. Federal obligations for research and development, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Hlth, Education, & Welfare, total	1,751.1	1,837.6	2,290.1	2,397.5	2,583.6	2,823.3	3,207.3	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	122.2	155.6	139.4	139.5	153.0	180.2	NA	NA	NA	NA
Centers for Disease Control	NA	38.6	44.9	42.6	49.6	55.3	60.1	NA	NA	NA	NA
Food & Drug Admin	30.4	30.2	43.5	35.9	37.1	42.9	64.1	NA	NA	NA	NA
Hlth Care Financing Admin	NA	NA	NA	NA	NA	30.0	19.4	NA	NA	NA	NA
Hlth Resources Admin	-	52.7	55.8	43.3	38.2	7.4	5.5	NA	NA	NA	NA
Hlth Svcs Admin	NA	13.2	12.5	17.3	17.5	17.7	18.2	NA	NA	NA	NA
Hlth Svcs & Mental Hlth Admin	244.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nat'l Inst of Education	-	106.8	75.7	69.9	63.7	64.9	89.5	NA	NA	NA	NA
Nat'l Inst of Hlth	1,271.3	1,314.2	1,736.8	1,879.9	2,060.2	2,279.9	2,580.9	NA	NA	NA	NA
Off of Asst Sec for Education	-	-	-	.6	1.0	1.0	1.3	NA	NA	NA	NA
Off of Asst Sec for Hlth	-	-	-	-	-	32.2	36.2	NA	NA	NA	NA
Off of Child Dev	17.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Education	130.1	58.3	51.5	45.9	58.2	31.1	32.9	NA	NA	NA	NA
Off of Humn Dev Svcs	-	28.8	53.0	64.3	61.9	76.8	75.8	NA	NA	NA	NA
Off of Internat'l Hlth	-	.7	2.7	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	29.8	26.2	23.7	20.0	30.2	NA	NA	NA	NA
Social & Rehabilitation Svc	43.8	53.5	8.9	9.6	18.6	NA	NA	NA	NA	NA	NA
Social Security Admin	13.6	18.5	19.4	22.6	14.4	11.2	12.9	NA	NA	NA	NA
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	3,504.9	3,780.2	3,927.1	3,940.7
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	NA	NA	NA	NA	NA	NA	214.3	233.5	239.4	248.1
Centers for Disease Control	NA	NA	NA	NA	NA	NA	NA	76.3	87.3	74.8	75.0
Food & Drug Admin	NA	NA	NA	NA	NA	NA	NA	61.0	75.4	71.4	73.0
Hlth Care Financing Admin	NA	NA	NA	NA	NA	NA	NA	31.8	45.7	38.6	29.1
Hlth Resources Admin	NA	NA	NA	NA	NA	NA	NA	4.9	5.1	5.0	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.1
Hlth Svcs Admin	NA	NA	NA	NA	NA	NA	NA	28.7	26.7	20.3	NA
Humn Dev Svcs 10/	NA	NA	NA	NA	NA	NA	NA	57.1	49.3	73.7	27.2
Nat'l Inst of Hlth	NA	NA	NA	NA	NA	NA	NA	2,953.1	3,181.8	3,333.2	3,433.1
Off of Asst Sec for Hlth 11/	NA	NA	NA	NA	NA	NA	NA	34.6	29.9	33.1	16.1
Off of the Secretary	NA	NA	NA	NA	NA	NA	NA	24.7	24.0	19.5	13.4
Social Security Admin	NA	NA	NA	NA	NA	NA	NA	18.3	21.4	18.0	15.5
Dept of Housing & Urban Dev	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9	56.0	48.1	28.9
Dept of the Interior, total	218.7	243.7	192.4	303.3	333.2	314.7	359.0	405.8	411.3	427.1	381.1
Bonneville Power Admin 8/	2.5	2.8	2.4	6.0	7.0	NA	NA	NA	NA	14.2	NA
Bureau of Land Management	.8	.7	.7	.8	.7	.9	1.2	1.3	1.7	1.9	5.3
Bureau of Mines	70.9	77.5	66.1	107.6	131.3	101.9	114.0	121.0	113.4	96.7	94.7
Bureau of Reclamation	10.2	9.7	7.4	7.8	8.3	9.9	11.2	12.2	14.1	14.3	10.1
Geological Survey 12/	51.5	66.6	66.2	106.6	110.3	117.5	133.7	145.6	146.3	169.8	152.6
Heritage Conservation & Recreation Svc	.0	.0	.0	.0	.0	.0	-	-	-	-	-
Nat'l Park Svc	1.3	1.5	2.5	8.4	9.3	7.8	7.7	8.9	8.2	10.4	11.2
Off of Coal Rsch	20.3	26.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	1.4	21.3	.5	1.7	1.0	4.5	1.7	1.4	2.2	1.5	.5
Off of Surface Mining Reclamation & Enforcement	NA	NA	NA	NA	NA	-	2.2	5.0	7.5	5.8	1.5
Off of Water Rsch & Tech 12/	38.0	13.3	22.3	19.5	19.0	15.1	27.4	27.2	29.3	21.1	11.4
Off of Saline Water	24.6	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Water Resources Rsch	13.4	13.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
US Fish & Wildlife Svc	21.9	23.7	24.3	45.0	46.2	57.1	59.9	83.1	88.6	91.5	93.9

See explanatory information, if any, and SOURCE at end of table.

Table C-147A. Federal obligations for research and development, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Justice, total	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0	41.5	26.5	26.7
Bureau of Prisons 13/	.5	.5	.5	.6	.8	1.1	3.6	3.4	2.1	2.5	1.7
Drug Enforcement Admin	1.2	1.6	5.0	1.5	2.5	3.0	1.9	2.4	2.7	1.3	3.2
Fed Bureau of Investigation	.7	.7	1.9	1.2	1.2	1.4	1.8	3.1	1.4	.7	2.7
Immigratn & Naturalizatn Svc	-	-	-	.1	.1	.3	.4	.2	.3	.1	.6
Off of Justice Programs	21.0	30.4	27.3	40.9	29.2	21.8	51.6	32.2	33.2	21.0	18.0
Off of Legal Policy	-	-	-	-	-	-	1.6	1.7	1.8	.8	.4
Dept of Labor, total	23.1	19.9	23.8	25.4	28.5	29.6	97.8	137.0	138.1	62.2	25.4
Bureau of Labor Stat	4.8	1.0	1.7	1.8	1.3	1.4	1.2	.9	.9	.3	.3
Employment Standards Admin	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3	4.9	3.2	1.4
Employment & Training Admin	15.6	14.6	16.1	15.5	17.5	16.8	86.6	120.8	121.7	52.4	16.1
Labor-Management Svcs Admin 14/	.7	.9	1.2	.8	.7	3.3	2.8	3.2	2.8	1.8	.7
Occupational Safety & Hlth Admin	.2	.9	1.4	2.0	2.9	3.4	1.3	5.1	6.3	3.0	4.9
Off of the Secretary	.2	1.2	2.5	2.0	1.8	.2	2.2	1.6	1.4	1.1	.9
Pension Benefit Guaranty Corporation	NA	NA	NA	NA	NA	NA	NA	NA	NA	.5	1.1
Dept of State, total	26.6	26.2	22.5	27.9	39.4	61.4	85.2	3.2	2.2	1.8	1.5
Agency for Internat'l Dev 15/	26.0	24.7	21.1	26.7	37.8	59.1	82.4	NA	NA	NA	NA
Departmental funds	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.8	NA
Dept of Transportation, total	310.5	310.6	369.8	311.6	294.5	354.6	408.3	370.1	361.2	415.5	310.1
Coast Guard	30.3	27.7	21.6	15.9	12.4	18.9	23.7	21.1	18.0	26.3	20.0
Fed Aviation Admin	100.9	79.5	125.0	105.6	98.1	103.4	110.5	110.5	103.1	120.0	94.3
Fed Highway Admin	20.7	23.6	40.8	44.7	28.9	55.5	51.7	52.9	51.1	51.2	40.3
Fed Railroad Admin	26.3	35.5	33.5	32.4	50.4	41.9	53.9	44.2	46.2	36.6	18.2
Maritime Admin 7/	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.2	11.1
Nat'l Highway Traffic Safety Admin	50.0	54.6	53.6	34.0	31.4	47.0	66.3	56.6	63.6	65.9	55.4
Off of the Secretary	23.6	23.6	29.7	31.3	25.8	28.0	31.7	11.7	10.8	10.1	3.3
Rsch & Special Programs Admin	NA	NA	NA	NA	NA	-	.9	15.0	14.0	13.1	6.1
Fed Transit Admin 16/	58.8	66.2	65.6	47.7	47.5	59.9	69.6	58.0	54.4	78.2	61.4
Dept of the Treasury, total	1.3	1.0	1.1	1.7	3.7	4.8	9.9	9.5	12.0	11.3	13.3
Bureau of Alcohol, Tobacco, & Firearms	-	-	-	-	-	1.1	2.0	2.5	1.6	.3	-
Bureau of Engraving & Printing	1.3	1.0	1.1	1.7	2.8	2.5	3.7	2.1	2.3	2.7	4.8
Internal Revenue Svc	-	-	-	-	-	-	2.4	3.6	4.0	4.2	5.4
Off of Protective Rsch	NA	NA	NA	NA	NA	NA	NA	NA	.4	.6	-
US Customs Svc	-	-	-	-	1.0	1.2	1.8	1.3	3.8	3.5	3.1
Dept of Veterans Affairs	69.1	74.3	84.8	94.8	97.7	107.0	114.0	127.0	133.4	144.4	137.3
Other agencies:											
Action	-	-	.2	.2	.1	.5	1.6	1.6	-	-	-
Advisory Commission on Intergovernmental Relations	.7	.9	1.1	1.2	1.0	1.5	1.7	1.7	2.2	2.2	2.0
Agency for Internat'l Dev 15/	NA	NA	NA	NA	NA	NA	NA	106.5	149.3	134.2	199.9
Appalachian Regional Comm	-	-	-	-	.7	.7	.5	.9	.8	.4	.4
Atomic Energy Comm	1,297.7	1,363.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Civil Svc Comm	1.0	2.4	3.1	4.4	4.0	3.9	NA	NA	NA	NA	NA
Community Svcs Admin	NA	NA	21.7	23.1	10.2	24.0	24.3	20.7	30.3	18.3	NA
Consumer Product Safety Comm	-	.3	4.3	6.0	5.6	6.7	3.8	3.9	3.5	.5	.2
Energy Rsch & Dev Admin 9/	NA	NA	1,488.9	2,047.3	2,463.8	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	122.4	180.6	169.2	257.7	259.1	295.5	384.6	410.1	345.0	325.7	335.1

See explanatory information, if any, and SOURCE at end of table.

Table C-147A. Federal obligations for research and development, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Fed Communications Comm	0.7	1.1	0.9	1.1	1.5	2.0	2.4	2.9	3.4	1.8	1.2
Fed Emergency Management Agency	NA	NA	NA	NA	NA	NA	7.0	12.6	11.8	11.6	9.2
Fed Energy Admin	NA	NA	-	1.3	3.0	NA	NA	NA	NA	NA	NA
Fed Home Loan Bank Board 17/	.5	.5	.7	.7	.8	1.7	1.0	.9	1.2	1.0	2.7
Fed Trade Comm	.6	.7	.9	.9	.9	1.1	1.4	1.5	3.0	1.1	1.2
General Svcs Admin 18/	.3	.5	1.8	1.8	1.1	.9	2.7	.5	.2	.6	1.0
Internat'l Trade Comm	-	-	-	-	1.5	2.6	3.1	3.4	2.1	3.4	3.8
Interstate Commerce Comm	-	-	-	-	.1	.1	.3	.2	.1	-	-
Library of Congress	2.3	2.6	2.2	2.6	3.0	3.8	4.9	5.9	6.9	4.9	5.7
Nat'l Aeronautics & Space Admin	3,157.2	3,060.9	3,002.2	3,064.4	3,446.8	3,170.8	3,333.3	3,578.4	3,234.1	3,593.2	3,077.9
Nat'l Science Foundation	454.8	479.9	556.4	595.0	609.3	697.0	748.8	807.9	881.8	961.6	975.3
Nuclear Regulatory Comm	NA	NA	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7	220.3
Off of Economic Opportunity	92.7	87.8	-	-	NA	NA	NA	NA	NA	NA	NA
Off of Emergency Preparedness	.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Personnel Management	NA	NA	NA	NA	NA	NA	4.5	6.0	6.8	8.4	-
Off of Science and Tech	2.0	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Telecomm Policy	1.2	.6	.3	4.1	4.6	-	-	NA	NA	NA	NA
Off of Thrift Supervision 17/	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Small Business Admin	-	-	-	.2	.1	.5	-	-	-	-	-
Smithsonian Inst	21.3	24.0	24.7	24.8	25.7	29.7	34.9	36.9	41.0	44.9	52.4
Spec Action Office for Drug Abuse Prevention	-	12.0	11.1	3.8	-	NA	NA	NA	NA	NA	NA
Tennessee Valley Authority	10.1	14.3	13.2	16.6	18.7	26.5	31.5	38.4	80.1	68.9	85.0
US Arms Control & Disarmament Agency	1.9	2.0	1.1	1.0	1.4	2.2	3.6	3.5	3.8	2.4	1.9
US Information Agency 19/	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.5	.1

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

10/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

11/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

12/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

13/ The Bureau of Prisons was formerly listed as Federal Prison System.

14/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

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18/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

19/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-147B. Federal obligations for research and development, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	38,711.5	42,224.9	48,359.6	51,412.4	55,253.7	56,769.4	61,406.5	63,668.2	61,295.2	70,367.8	69,754.4
Departments:											
Dept of Agriculture, total	847.6	866.2	943.0	928.5	947.9	1,016.6	1,038.3	1,108.4	1,236.6	1,336.5	1,337.2
Agricultural Coop Svc 1/	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.5	3.1
Agricultural Marketing Svc 2/	1.4	1.5	1.7	1.6	1.5	1.6	1.5	2.7	4.2	4.7	4.3
Agricultural Rsch Svc 3/	443.4	451.3	469.7	463.4	478.6	505.7	523.5	545.5	591.0	628.4	654.3
Animal & Plant Health Inspection Svc	NA	NA	NA	4.2	4.9	5.6	7.4	8.0	15.7	16.7	16.7
Coop State Rsch Svc 4/	232.3	235.7	284.3	269.0	270.7	298.4	307.3	324.2	376.8	419.4	404.3
Econ Rsch Svc	38.8	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	58.7	60.4
Fed Grain Inspection Svc	NA	NA	.9	1.0	1.2	1.0	1.1	.6	.7	1.2	1.3
Forest Svc	107.7	108.4	113.1	113.3	126.7	135.5	131.4	158.6	174.7	188.1	177.3
Human Nutrition Info Svc	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.8	10.8
Nat'l Agricultural Stat Svc	7.6	8.2	8.4	8.0	3.4	3.6	2.9	2.8	3.2	3.4	3.5
Off of Internat'l Coop & Dev	5.3	8.2	7.7	7.0	5.6	5.0	2.5	3.6	3.1	1.5	1.3
Off of Transportation 2/	.8	1.0	1.2	1.0	1.1	1.1	-	-	-	-	-
Dept of Commerce, total	335.0	358.2	398.8	399.2	402.2	388.9	397.9	438.2	489.6	620.7	622.6
Bureau of the Census	4.3	4.4	4.9	4.7	4.7	5.7	4.9	6.9	6.6	6.1	5.9
Econ Dev Admin	5.3	5.1	13.0	10.3	5.0	4.2	1.0	1.2	1.4	.5	-
Nat'l Inst of Standards & Tech	95.0	95.5	100.5	100.8	98.6	107.9	115.5	122.3	140.0	220.9	231.1
Nat'l Oceanic & Atmospheric Admin	222.0	244.3	269.8	274.7	286.1	263.0	268.6	300.1	338.0	389.3	379.4
Nat'l Telecomm & Info Admin	8.3	8.7	9.1	8.4	7.8	8.1	7.8	7.7	3.6	4.0	6.3
Off of the Secretary	.0	.1	1.4	.3	.0	-	-	-	-	-	-
Dept of Defense, total	22,992.8	25,372.9	29,791.5	32,937.9	35,231.5	35,248.9	37,576.9	37,268.1	32,134.8	38,309.2	36,155.2
Department of the Army	3,998.1	4,225.5	4,570.8	4,809.4	5,019.5	4,806.0	5,659.3	5,684.1	6,081.5	6,631.2	5,737.3
Department of the Navy	6,068.2	7,605.6	9,127.4	9,650.3	9,507.8	9,514.1	9,666.1	9,586.2	7,806.0	9,199.0	7,754.0
Department of the Air Force	10,812.6	12,091.6	13,260.9	13,593.8	15,347.7	14,867.3	15,237.4	14,831.4	10,937.5	13,588.5	12,652.4
Defense agencies	2,052.3	1,391.5	2,781.7	4,767.4	5,219.7	5,832.9	6,858.9	6,945.2	7,072.5	8,681.7	8,396.7
Test & Evaluation, Deputy Under Secretary Defense	61.6	58.6	50.6	117.1	128.5	160.3	140.7	188.7	223.7	196.0	287.3
Director, Operational Test and Evaluation	NA	NA	NA	-	8.4	68.2	14.4	32.6	13.6	12.8	13.0
Health Affairs, Assistant Secretary of Defense for	-	-	-	-	-	-	-	-	-	-	314.4
Dept of Education	111.7	115.7	124.9	121.3	132.5	140.7	159.1	169.9	171.0	199.6	210.4
Dept of Energy 5/ 6/	4,536.7	4,673.6	4,966.0	4,688.3	4,757.2	[illegible]	5,192.6	5,630.6	5,983.1	6,765.8	6,731.4
Dept of Hlth & Humn Svcs, total	4,352.5	4,830.7	5,451.0	5,657.6	6,606.3	7,158.0	7,902.8	8,405.6	9,756.0	10,677.5	11,142.7
Admin on Aging 7/	NA	NA	NA	NA	NA	NA	NA	NA	20.6	20.6	19.6
Admin for Children & Families 7/	NA	NA	NA	NA	NA	NA	NA	-	129.0	155.3	142.2
Agency for Hlth Care Policy & Rsch 8/	NA	NA	NA	NA	NA	NA	NA	49.7	101.1	106.3	73.9
Alcohol, Drug Abuse, & Mental Hlth Admin	302.2	337.2	377.6	396.1	475.5	554.8	695.7	842.7	1,460.6	1,583.2	1,680.4
Centers for Disease Control	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	117.4	118.3
Food & Drug Admin	74.2	77.8	82.1	79.4	85.0	91.0	99.0	99.0	125.0	137.7	143.3
Hlth Care Financing Admin	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	78.4	36.0
Hlth Resources & Svcs Admin	13.3	18.5	19.7	12.3	9.3	10.0	10.5	11.9	11.0	11.2	11.1
Humn Dev Svcs 7/	23.4	18.3	24.3	54.6	53.0	54.0	101.7	95.4	NA	NA	NA
Nat'l Inst of Hlth	3,789.2	4,257.4	4,827.7	5,005.1	5,850.9	6,290.9	6,778.3	7,136.5	7,695.5	8,422.7	8,888.1
Off of Asst Sec for Hlth 8/	16.6	18.1	18.6	17.3	21.2	21.0	27.2	6.9	10.0	8.9	4.4
Off of the Secretary	14.4	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2
Social Security Admin	10.8	13.5	10.4	5.6	9.8	14.7	15.8	13.9	11.9	30.7	20.2
Dept of Housing & Urban Dev	32.1	18.2	18.5	15.3	16.3	18.4	18.0	19.3	27.8	28.5	36.6

See explanatory information, if any, and SOURCE at end of table.

Table C-147B. Federal obligations for research and development, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Dept of the Interior, total	382.5	410.9	391.7	385.2	403.8	416.8	469.0	508.5	592.9	612.8	541.4
Bureau of Land Management	3.9	3.8	4.4	3.4	3.7	3.7	3.0	2.8	8.8	9.3	16.2
Bureau of Mines	88.5	108.8	89.9	84.4	88.8	91.3	98.7	99.3	106.1	111.4	74.7
Bureau of Reclamation	10.0	10.4	13.2	10.2	10.7	4.4	4.2	5.8	8.7	13.2	9.3
Geological Survey 9/	157.0	208.9	214.9	218.6	226.8	236.1	279.9	308.4	356.6	362.4	325.5
Minerals Management Svc	1.5	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.7	3.7	3.7
Nat'l Park Svc	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	29.0	29.5
Off of the Secretary	7.4	.1	1.9	1.0	-	.4	.4	.2	.6	.9	2.8
Off of Surface Mining Reclamation & Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	.3	.4
Off of Water Rsch & Tech 9/	2.2	3.6	-	-	-	-	-	-	-	-	-
US Fish & Wildlife Svc	96.7	59.1	49.0	47.0	53.3	59.2	60.6	69.4	81.0	82.6	79.3
Dept of Justice, total	31.4	24.5	36.0	36.5	42.4	43.1	38.2	40.5	48.9	50.4	55.4
Bureau of Prisons 10/	1.7	1.6	1.5	3.0	7.1	6.0	5.1	4.5	5.2	5.3	5.6
Drug Enforcement Admin	2.5	1.9	1.6	2.5	2.2	2.5	2.7	2.4	2.7	1.8	1.8
Fed Bureau of Investigation	2.5	1.0	9.5	7.2	8.0	12.7	7.7	8.2	10.8	11.4	24.3
Immigratn & Naturalizatn Svc	.6	.6	.4	.4	.4	.3	.1	.4	.4	.4	.4
Off of Justice Programs	23.8	19.5	22.7	23.2	24.6	21.5	22.5	25.0	29.8	31.4	23.3
Off of Legal Policy	.3	-	.3	.2	.1	-	-	-	-	-	-
Dept of Labor, total	19.9	16.3	13.3	10.4	21.6	35.6	35.4	73.0	44.0	39.0	44.1
Bureau of Labor Stat	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	8.4
Employment Standards Admin	1.4	.9	.0	-	1.0	.1	.1	.1	-	-	-
Employment & Training Admin	9.0	6.1	3.5	3.5	5.7	14.9	15.7	53.4	22.1	16.6	16.8
Labor-Management Relations and Coop Programs 11/	NA	.3	.3	.2	.3	.4	.3	-	-	-	-
Labor-Management Svcs Admin 11/	.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Hlth Admin	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.2	3.2
Off of the Secretary	1.5	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	8.6	12.8
Pension Benefit Guaranty Corporation	1.1	.3	.2	.1	.3	.3	.3	.5	.5	.6	.5
Pension & Welfare Benefit Admin	NA	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.5	2.4
Dept of State, total	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.3	5.3
Dept of Transportation, total	347.7	448.3	428.9	385.5	325.0	304.6	303.3	366.6	379.9	464.8	493.2
Coast Guard	19.6	19.5	19.0	16.9	17.0	21.1	17.9	20.2	25.5	28.8	29.5
Fed Aviation Admin	126.2	266.2	286.3	260.6	167.3	160.5	146.8	216.1	220.1	252.3	253.7
Fed Highway Admin	50.4	46.4	49.0	45.5	76.7	74.1	91.0	91.5	86.9	117.9	134.6
Fed Railroad Admin	16.5	19.2	15.0	15.4	11.2	10.0	9.0	10.2	15.9	29.2	25.5
Maritime Admin 12/	15.0	9.9	13.9	9.4	5.8	.5	-	.9	1.7	1.8	1.7
Nat'l Highway Traffic Safety Admin	52.0	56.9	28.1	22.4	27.9	28.3	29.7	16.9	21.4	25.8	35.8
Off of the Secretary	4.9	4.9	4.8	5.1	4.5	5.7	5.5	6.8	4.3	5.1	4.6
Rsch & Special Programs Admin	6.2	5.2	2.7	2.0	2.1	2.1	2.0	2.4	2.4	2.5	2.7
Fed Transit Admin 13/	57.0	20.1	10.2	8.2	12.6	2.3	1.4	1.6	1.7	1.5	5.1
Dept of the Treasury, total	15.6	13.9	24.3	24.0	26.9	26.1	25.6	25.6	30.8	31.3	34.6
Bureau of Engraving & Printing	3.9	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	4.2	1.3
Financial Crimes Enforcement Network	-	-	-	-	-	-	-	-	2.3	2.0	2.1
Internal Revenue Svc	8.0	8.2	15.9	14.2	14.6	14.4	14.4	16.8	17.9	17.9	17.9
Off of Protective Rsch	.3	.2	.6	.4	.5	.4	.6	.5	.4	.5	.6
Off of Thrift Supervision 14/	NA	NA	NA	NA	NA	NA	NA	-	3.0	3.0	3.2
US Customs Svc	3.3	1.8	2.2	4.8	7.0	9.2	6.8	6.2	3.7	3.1	8.9
US Mint	-	-	.6	.3	.2	.1	2.0	.1	.1	.6	.6
Dept of Veterans Affairs	161.4	190.3	226.6	186.2	209.5	215.3	234.7	237.7	216.6	236.0	242.0

See explanatory information, if any, and SOURCE at end of table.

Table C-147B. Federal obligations for research and development, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Other agencies:											
Advisory Commission on Intergovernmental Relations	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.5	1.5
Agency for Internat'l Dev 15/	227.3	237.2	220.4	251.2	217.5	204.4	279.1	334.6	377.7	361.3	374.3
Appalachian Regional Comm	.2	.5	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Comm	.5	1.3	2.4	2.0	2.2	1.1	1.3	1.1	1.3	1.2	1.5
Environmental Protection Agency	240.7	261.2	320.4	317.3	348.2	347.4	380.3	419.7	432.6	491.5	519.7
Fed Communications Comm	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Fed Emergency Management Agency	3.3	11.5	4.1	NA	NA	NA	NA	NA	NA	NA	NA
Fed Home Loan Bank Board 14/	3.0	2.6	2.8	3.3	3.4	3.4	NA	NA	NA	NA	NA
Fed Trade Comm	1.4	1.6	1.7	1.8	.5	.4	.4	.5	1.0	.5	.5
General Svcs Admin 16/	.5	2.4	.4	1.2	1.6	2.3	.5	.7	-	-	-
Internat'l Trade Comm	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	11.7	12.5
Library of Congress	7.4	7.5	7.1	6.6	6.5	7.1	8.0	8.4	9.0	10.6	10.5
Nat'l Aeronautics & Space Admin	2,661.6	2,821.9	3,327.2	3,419.8	3,787.1	4,330.4	5,393.5	6,533.2	7,280.2	7,860.3	8,628.7
Nat'l Archives and Records Admin 16/	NA	NA	.5	1.0	1.1	.7	.3	.4	.7	.3	.3
Nat'l Science Foundation	1,062.0	1,202.8	1,345.6	1,353.3	1,470.5	1,532.8	1,670.4	1,689.5	1,785.2	1,936.5	2,246.9
Nuclear Regulatory Comm	207.3	190.7	150.0	123.8	122.5	108.5	114.8	217.5	108.8	118.9	127.7
Off of Thrift Supervision 14/	NA	NA	NA	NA	NA	NA	4.1	4.1	-	-	-
Smithsonian Inst	56.0	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.0	100.0	118.0
Tennessee Valley Authority	63.0	68.1	79.5	77.5	77.9	87.3	62.6	64.9	68.3	89.5	56.0
US Arms Control & Disarmament Agency	1.0	1.3	1.1	.9	3.6	3.4	2.8	.2	.4	2.1	1.0
US Information Agency 17/	.0	1.4	.1	2.0	3.5	.4	.1	.5	.1	1.0	.6

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

7/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

8/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

9/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

10/ The Bureau of Prisons was formerly listed as Federal Prison System.

11/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

12/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

13/ Name changed from Urban Mass Transit Administration on December 18, 1991

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

17/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-148A. Federal obligations for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	602.1	774.3	766.3	820.7	836.7	1,367.2	1,295.7	1,475.5	1,555.7	1,485.7	1,389.8
Departments:											
Dept of Agriculture, total	7.8	2.9	8.8	7.8	16.1	12.9	24.7	22.6	56.9	20.8	21.5
Agricultural Rsch Svc 1/	4.2	1.7	4.7	4.5	13.2	11.1	22.0	19.1	53.2	17.6	21.1
Forest Svc	3.6	1.2	4.1	3.3	2.9	1.8	2.7	3.5	3.6	3.2	.4
Dept of Commerce, total	7.4	7.9	11.6	9.5	6.6	7.1	4.1	2.4	4.6	1.3	1.0
Maritime Admin 2/	.7	2.1	2.8	1.1	2.2	4.9	1.0	.9	.5	NA	NA
Nat'l Inst of Standards & Tech	1.8	2.1	.9	1.4	.5	.7	.8	1.5	.3	.5	1.0
Nat'l Oceanic & Atmospheric Admin	4.9	3.7	7.9	7.1	4.0	1.5	2.3	-	3.9	.8	-
Dept of Defense, total	174.7	146.4	169.1	167.1	143.4	445.6	232.6	270.2	208.2	277.7	290.5
Department of the Army	39.5	17.1	32.1	23.9	12.3	16.3	7.6	3.8	13.8	12.8	24.7
Department of the Navy	40.4	35.7	54.0	62.7	45.8	61.2	48.3	68.1	83.2	97.9	155.9
Department of the Air Force	70.8	70.6	67.7	59.6	73.0	350.0	160.1	167.5	108.0	159.6	84.7
Defense agencies	24.1	23.0	15.3	20.9	12.3	18.1	16.6	30.8	3.2	7.4	25.2
Dept of Energy 3/ 4/	NA	NA	NA	NA	NA	561.0	690.7	844.4	1,024.1	978.2	914.0
Dept of Hlth, Education, & Welfare, total	55.0	41.6	[illegible]	39.1	33.1	132.6	74.3	NA	NA	NA	NA
Centers for Disease Control	NA	.0	[illegible]	-	-	-	-	NA	NA	NA	NA
Food & Drug Admin	-	.2	[illegible]	.7	.9	.8	.9	NA	NA	NA	NA
Hlth Svcs & Mental Hlth Admin	5.0	NA	[illegible]	NA	NA	NA	NA	NA	NA	NA	NA
Nat'l Inst of Hlth	49.8	41.3	[illegible]	38.4	32.2	131.8	73.4	NA	NA	NA	NA
Off of Education	.1	-	[illegible]	-	-	-	-	NA	NA	NA	NA
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	53.5	30.6	23.7	24.7
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	NA	NA	NA	NA	NA	NA	.1	-	.2	3.3
Food & Drug Admin	NA	NA	NA	NA	NA	NA	NA	5.8	1.2	1.2	2.0
Nat'l Inst of Hlth	NA	NA	NA	NA	NA	NA	NA	47.6	29.4	22.3	19.4
Dept of the Interior, total	13.8	22.0	2.1	3.9	5.9	5.0	15.0	5.0	7.5	3.5	1.3
Bonneville Power Admin 3/	.8	.2	.1	.1	.1	NA	NA	NA	NA	.3	NA
Bureau of Mines	-	-	-	-	-	3.4	7.1	.3	1.0	.6	.1
Geological Survey 5/	.0	.7	.4	-	-	-	-	-	-	-	-
Nat'l Park Svc	-	-	-	.0	.0	.0	-	-	-	-	-
Off of Coal Rsch	12.1	19.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	.1	-	-	-	-	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	NA	NA	NA	NA	NA	-	-	-	.3	-	-
Off of Water Rsch & Tech 5/	.3	-	.5	-	-	.9	.6	.7	.7	.8	.9
Off of Saline Water	.3	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
US Fish & Wildlife Svc	.6	1.2	1.2	3.8	5.8	.6	7.3	4.0	5.5	1.8	.3

See explanatory information, if any, and SOURCE at end of table.

Table C-148A. Federal obligations for R&D plant, by agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of State, total	2.6	0.4	0.4	-	5.1	16.2	0.2	-	-	-	-
Agency for Internat'l Dev 6/	2.6	.4	.4	-	5.1	16.2	.2	NA	NA	NA	NA
Dept of Transportation, total	25.8	38.2	13.4	13.3	14.2	22.5	14.1	22.6	23.3	18.9	11.9
Coast Guard	8.6	17.1	5.1	.6	.4	.6	.7	-	-	-	-
Fed Aviation Admin	1.5	1.5	.4	3.4	2.0	3.0	1.0	9.9	5.7	8.9	5.1
Fed Highway Admin	.2	.2	.4	.4	.4	.4	.4	.6	7.2	.0	-
Fed Railroad Admin	10.3	11.4	3.9	7.0	10.1	16.6	11.8	11.9	10.2	9.5	6.3
Nat'l Highway Traffic Safety Admin	-	-	-	-	-	.2	.2	.2	.2	.5	.5
Fed Transit Admin 7/	5.2	8.2	3.7	1.8	1.3	1.7	-	-	-	-	-
Dept of the Treasury, total	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1
Bureau of Engraving & Printing	.0	.0	.0	.0	-	-	-	-	-	-	-
US Customs Svc	-	-	-	-	.1	.1	.0	.0	.0	.1	.1
Dept of Veterans Affairs	2.2	10.3	2.1	2.2	11.8	5.9	4.1	5.1	4.4	14.8	2.8
Other agencies:											
Agency for Internat'l Dev 6/	NA	NA	NA	NA	NA	NA	NA	6.4	6.3	8.0	6.0
Atomic Energy Comm	246.7	349.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	-	-	-	1.9	.2	-	.3	2.7	2.7	-	-
Energy Rsch & Dev Admin 4/	NA	NA	392.7	392.6	438.8	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	.7	24.5	1.2	2.1	6.3	2.1	4.6	2.4	-	-	-
Fed Communications Comm	.0	-	-	-	-	-	-	-	-	-	-
Nat'l Aeronautics & Space Admin	45.2	69.3	98.4	142.7	82.1	118.1	162.3	147.5	159.1	115.8	113.7
Nat'l Science Foundation	18.6	57.1	11.7	23.1	52.6	27.1	39.7	30.2	18.7	14.6	1.5
Nuclear Regulatory Comm	NA	NA	3.8	3.0	9.6	7.1	6.9	8.6	7.7	7.7	-
Smithsonian Inst	-	.1	.4	.4	.5	.2	.2	1.0	.9	.4	.5
Tennessee Valley Authority	1.5	4.5	9.7	12.2	10.2	3.7	21.9	50.8	.6	.4	.3

1/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

2/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

3/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

4/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

5/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

6/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

7/ Name changed from Urban Mass Transit Administration on December 18, 1991

NOTE: Because of rounding, detail may not add to totals.

KEY: NA – Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-148B. Federal obligations for R&D plant, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	1,298.1	1,787.3	1,820.8	1,538.8	1,846.0	2,057.1	2,165.1	2,283.6	3,695.4	5,217.7	5,290.7
Departments:											
Dept of Agriculture, total	33.9	39.2	40.6	79.4	111.8	135.2	89.2	102.2	144.6	175.2	103.8
Agricultural Rsch Svc 1/	23.4	28.8	29.0	69.2	43.9	55.5	55.2	44.4	64.7	88.6	98.8
Animal & Plant Health Inspection Svc	NA	NA	NA	-	-	.5	.3	6.1	-	2.5	-
Coop State Rsch Svc 2/	10.0	10.0	10.0	9.5	67.6	76.2	32.2	46.9	61.5	80.5	-
Forest Svc	.5	.4	1.6	.6	.3	2.9	1.6	4.9	18.4	3.6	5.0
Dept of Commerce, total	.7	9.4	4.2	9.3	5.2	11.2	9.1	15.4	15.7	24.5	25.5
Nat'l Inst of Standards & Tech	.7	9.4	4.2	7.7	2.0	10.7	8.6	8.8	8.5	14.9	22.7
Nat'l Oceanic & Atmospheric Admin	-	-	-	1.5	3.2	.5	.5	6.6	7.3	9.6	2.8
Dept of Defense, total	312.5	529.2	530.9	286.1	477.2	435.8	499.3	487.3	1,253.2	1,940.5	2,463.9
Department of the Army	26.3	56.2	52.9	53.9	65.8	92.8	45.1	53.1	91.0	29.0	21.0
Department of the Navy	141.7	173.4	182.1	97.6	69.0	74.9	89.6	60.4	54.0	136.0	23.0
Department of the Air Force	138.7	285.4	291.3	130.1	270.3	143.7	250.2	322.2	979.7	1,642.3	2,251.4
Defense agencies	5.8	14.2	4.6	4.5	72.1	124.4	114.4	51.6	128.4	133.2	168.6
Dept of Education	-	-	1.1	6.6	21.0	5.2	1.9	8.9	4.2	2.1	2.1
Dept of Energy 3/ 4/	757.7	852.4	868.4	742.3	772.2	915.0	873.0	916.0	1,220.1	1,588.7	1,664.7
Dept of Hlth & Humn Svcs, total	47.9	31.1	42.1	37.9	36.7	19.5	78.6	107.8	86.3	308.4	100.4
Alcohol, Drug Abuse, & Mental Hlth Admin	1.8	.3	.4	.5	.6	-	-	-	-	-	-
Food & Drug Admin	28.5	3.0	13.0	8.0	.8	.5	23.0	23.0	18.4	22.5	26.9
Hlth Resources & Svcs Admin	-	-	-	-	-	-	-	-	-	.8	1.0
Nat'l Inst of Hlth	17.5	27.8	28.8	29.4	35.3	19.0	55.6	84.8	67.8	285.0	72.5
Social Security Admin	-	-	-	-	-	-	-	-	.0	.1	-
Dept of the Interior, total	2.4	5.2	4.2	4.3	11.8	9.4	10.8	14.0	22.2	19.0	7.9
Bureau of Mines	.1	.0	-	-	-	-	2.6	3.0	2.1	.6	.6
Geological Survey 5/	1.4	1.0	.8	.8	.8	.8	1.3	1.3	3.3	4.3	3.8
Minerals Management Svc	-	-	-	-	-	-	-	.2	.3	1.0	1.0
US Fish & Wildlife Svc	.9	4.2	3.4	3.5	11.0	8.6	6.9	9.5	16.6	13.1	2.5
Dept of Justice, total	-	-	-	-	11.1	-	-	-	-	-	-
Fed Bureau of Investigation	-	-	-	-	11.1	-	-	-	-	-	-

See explanatory information, if any, and SOURCE at end of table.

Table C-148B. Federal obligations for R&D plant, by agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Dept of Transportation, total	21.9	16.9	9.0	12.1	11.2	13.9	15.5	21.8	18.4	24.7	24.1
Coast Guard	-	-	-	-	-	.3	-	.4	.4	.4	.4
Fed Aviation Admin	21.4	16.4	8.5	10.9	10.4	13.2	15.5	21.4	16.3	23.2	23.4
Fed Highway Admin	-	-	-	.7	.3	-	-	-	-	-	-
Fed Railroad Admin	-	-	-	-	-	.4	-	-	1.7	1.1	.3
Nat'l Highway Traffic Safety Admin	.5	.5	.5	.5	.5	-	-	-	-	-	-
Dept of the Treasury, total	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2
Off of Protective Rsch	-	-	-	.1	.0	.0	.0	.0	.0	.0	.0
US Customs Svc	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Dept of Veterans Affairs	10.5	6.1	3.3	4.8	5.9	19.5	11.0	3.3	3.4	11.7	1.9
Other agencies:											
Agency for Internat'l Dev 6/	4.8	7.8	6.9	7.5	6.8	6.1	-	13.4	15.1	14.5	15.0
General Svcs Admin 7/	-	-	-	18.8	-	-	-	17.3	22.6	6.5	-
Nat'l Aeronautics & Space Admin	101.3	244.2	234.3	275.0	309.4	428.2	519.5	527.0	723.6	988.9	723.4
Nat'l Science Foundation	3.2	45.2	73.6	53.2	61.3	56.9	53.6	39.3	159.6	100.6	151.4
Smithsonian Inst	1.0	.2	1.6	.7	2.9	.7	3.4	4.8	1.5	9.2	6.6
Tennessee Valley Authority	.3	.2	.5	.8	.3	.4	.2	4.9	4.8	3.1	.1
US Arms Control & Disarmament Agency	-	-	-	-	1.0	-	-	-	-	-	-

1/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

2/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

3/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

4/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

5/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

6/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

7/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-149. Federal obligations for research, development, and R&D plant: fiscal years 1970-93

[Dollars in millions]

Fiscal year	Total	Research		Development	R&D plant
		Basic	Applied		
1970	15,863.4	1,925.9	2,974.9	10,438.1	524.4
1971	16,153.8	1,980.1	3,143.0	10,419.3	611.2
1972	17,098.0	2,186.9	3,360.8	10,948.2	602.1
1973	17,574.5	2,232.0	3,349.4	11,218.7	774.3
1974	18,176.5	2,387.7	3,787.6	11,234.9	766.3
1975	19,859.5	2,588.4	4,141.3	12,309.1	820.7
1976	21,616.4	2,767.5	4,851.9	13,160.3	836.7
1977	24,817.6	3,258.6	5,255.5	14,936.3	1,367.2
1978	27,140.8	3,698.6	5,908.2	16,238.4	1,295.7
1979	29,620.6	4,192.7	6,342.3	17,610.1	1,475.5
1980	31,386.1	4,674.2	6,923.2	18,233.1	1,555.7
1981	34,589.6	5,041.3	7,171.5	20,891.1	1,485.7
1982	37,822.4	5,481.6	7,540.6	23,410.4	1,389.8
1983	40,009.6	6,260.1	7,993.4	24,458.0	1,298.1
1984	44,012.1	7,067.4	7,911.4	27,246.1	1,787.3
1985	50,180.4	7,818.7	8,314.7	32,226.1	1,820.8
1986	52,951.2	8,153.1	8,349.1	34,910.2	1,538.8
1987	57,099.7	8,942.4	8,998.1	37,313.2	1,846.0
1988	58,826.5	9,473.6	9,176.5	38,119.3	2,057.1
1989	63,571.6	10,602.0	10,163.5	40,641.0	2,165.1
1990	65,951.9	11,285.6	10,445.5	41,937.1	2,283.6
1991	64,990.5	12,170.8	11,797.6	37,326.8	3,695.4
1992 (Estimates)	75,585.6	13,254.1	12,941.4	44,172.4	5,217.7
1993 (Estimates)	75,045.2	14,184.3	13,715.0	41,855.1	5,290.7

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-150A. Federal obligations for research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	5,547.7	5,581.4	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	13,022.2
Departments:											
Dept of Agriculture, total	337.2	354.1	365.1	401.9	442.2	524.0	594.5	631.9	657.4	741.0	766.5
Agricultural Coop Svc 1/	1.1	1.2	1.4	1.2	1.2	NA	NA	NA	1.6	1.7	1.7
Agricultural Marketing Svc 2/	NA	NA	NA	NA	NA	NA	NA	.4	1.0	.9	1.0
Agricultural Rsch Svc 3/	183.9	189.7	193.4	204.1	227.6	281.0	303.7	320.9	328.6	367.9	379.1
Coop State Rsch Svc 4/	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	199.4	219.0
Econ, Stat & Coop Svc 5/	NA	NA	NA	NA	NA	29.7	32.7	35.5	NA	NA	NA
Econ Rsch Svc	16.0	16.9	18.1	21.3	24.0	NA	NA	NA	NA	39.3	39.3
Econ & Stat Svc 6/	NA	NA	NA	NA	NA	NA	NA	NA	31.1	NA	NA
Forest Svc	52.9	56.1	62.3	73.3	74.5	86.1	100.7	102.5	106.1	119.9	107.7
Human Nutrition Info Svc	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	8.5
Nat'l Agricultural Library	.2	.3	.1	.0	.0	-	-	-	-	-	-
Nat'l Agricultural Stat Svc	.5	.5	.4	1.0	1.6	NA	NA	NA	NA	7.5	7.0
Off of Internat'l Coop & Dev	NA	NA	NA	NA	NA	NA	NA	-	4.9	3.6	2.4
Off of Transportation 2/	NA	NA	NA	NA	NA	NA	NA	-	-	.8	.8
Dept of Commerce, total	143.4	130.2	129.2	144.4	155.7	176.1	192.8	219.5	254.4	249.4	276.1
Bureau of the Census	1.8	.5	.7	.7	2.1	2.0	2.3	1.8	1.9	3.0	1.9
Econ Dev Admin	.8	.9	.9	1.1	2.1	2.5	5.9	8.5	2.5	1.8	1.6
Maritime Admin 7/	20.7	5.9	5.8	5.7	5.0	3.7	7.0	12.2	12.1	NA	NA
Minority Business Dev Agency	-	-	.2	.9	.4	.7	-	-	-	-	-
Nat'l Fire Prevention & Control Admin	-	-	-	.7	3.2	4.5	NA	NA	NA	NA	NA
Nat'l Inst of Standards & Tech	29.8	31.0	32.7	34.7	37.5	45.0	48.5	51.8	58.9	66.2	73.9
Nat'l Oceanic & Atmospheric Admin	90.2	89.1	87.1	99.7	104.9	115.8	127.9	142.7	168.8	168.5	188.5
Nat'l Telecomm & Info Admin	NA	NA	NA	NA	NA	2.0	1.1	2.4	9.6	9.9	10.1
Off of Telecommunications	-	2.3	1.6	.6	.4	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	-	-	-	-	-	.1	.5	-	.0
Patent and Trademark Office	-	-	.2	.3	.2	-	-	-	-	-	-
US Travel & Tourism Admin	-	.4	-	-	-	-	-	-	-	-	-
Dept of Defense, total	1,504.6	1,436.1	1,434.4	1,431.0	1,527.5	1,715.8	1,824.1	2,014.1	2,261.8	2,600.9	2,952.8
Department of the Army	371.5	377.1	366.5	336.4	362.4	398.0	409.8	448.6	479.3	536.5	639.2
Department of the Navy	406.4	386.3	401.3	406.5	438.0	497.4	526.3	567.3	611.1	698.0	778.7
Department of the Air Force	342.3	341.0	341.7	355.8	382.3	425.8	448.7	492.3	537.3	617.3	633.9
Defense agencies	380.4	328.5	322.2	330.6	344.1	393.4	431.7	505.9	634.1	749.1	901.0
Defense Civil Preparedness Agency	4.0	3.2	2.7	1.7	.7	1.3	7.5	NA	NA	NA	NA
Dept of Education	NA	NA	NA	NA	NA	NA	NA	93.4	87.6	53.8	70.5
Dept of Energy 8/ 9/	NA	NA	NA	NA	NA	891.3	1,102.2	1,131.8	1,277.3	1,413.6	1,696.1

See explanatory information, if any, and SOURCE at end of table.

Table C-150A. Federal obligations for research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Hlth, Education, & Welfare, total	1,432.0	1,444.2	1,846.7	1,924.8	2,150.7	2,414.3	2,740.7	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	122.2	155.6	139.4	136.6	152.0	178.8	NA	NA	NA	NA
Centers for Disease Control	NA	38.3	44.9	42.6	49.6	55.3	60.1	NA	NA	NA	NA
Food & Drug Admin	30.4	30.2	43.5	35.9	37.1	42.9	64.1	NA	NA	NA	NA
Hlth Care Financing Admin	NA	NA	NA	NA	NA	30.0	19.4	NA	NA	NA	NA
Hlth Resources Admin	-	11.0	9.7	16.7	31.0	7.4	5.0	NA	NA	NA	NA
Hlth Svcs Admin	NA	10.1	9.4	10.6	9.5	9.5	10.6	NA	NA	NA	NA
Hlth Svcs & Mental Hlth Admin	200.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nat'l Inst of Education	-	16.1	9.5	4.1	10.8	27.1	34.6	NA	NA	NA	NA
Nat'l Inst of Hlth	1,099.4	1,132.1	1,489.6	1,604.2	1,767.7	1,968.7	2,232.6	NA	NA	NA	NA
Off of Asst Sec for Education	-	-	-	.6	1.0	1.0	1.3	NA	NA	NA	NA
Off of Asst Sec for Hlth	-	-	-	-	-	28.6	32.6	NA	NA	NA	NA
Off of Child Dev	12.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Education	36.0	6.6	6.4	5.3	21.4	11.9	13.3	NA	NA	NA	NA
Off of Humn Dev Svcs	-	10.1	17.2	7.1	34.6	48.7	45.2	NA	NA	NA	NA
Off of Internat'l Hlth	-	.7	2.7	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	29.8	26.2	23.7	20.0	30.2	NA	NA	NA	NA
Social & Rehabilitation Svc	39.9	48.3	8.9	9.6	18.6	NA	NA	NA	NA	NA	NA
Social Security Admin	13.6	18.5	19.4	22.6	9.1	11.2	12.9	NA	NA	NA	NA
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	3,015.7	3,332.8	3,492.2	3,605.6
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	NA	NA	NA	NA	NA	NA	213.5	233.5	237.7	246.1
Centers for Disease Control	NA	NA	NA	NA	NA	NA	NA	76.3	87.3	74.8	75.0
Food & Drug Admin	NA	NA	NA	NA	NA	NA	NA	61.0	75.4	71.4	73.0
Hlth Care Financing Admin	NA	NA	NA	NA	NA	NA	NA	31.8	45.7	38.6	29.1
Hlth Resources Admin	NA	NA	NA	NA	NA	NA	NA	4.9	5.1	5.0	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.7
Hlth Svcs Admin	NA	NA	NA	NA	NA	NA	NA	10.2	8.0	10.2	NA
Humn Dev Svcs 10/	NA	NA	NA	NA	NA	NA	NA	14.9	19.1	39.9	8.7
Nat'l Inst of Hlth	NA	NA	NA	NA	NA	NA	NA	2,530.1	2,787.5	2,948.3	3,124.5
Off of Asst Sec for Hlth 11/	NA	NA	NA	NA	NA	NA	NA	29.9	25.7	28.8	13.9
Off of the Secretary	NA	NA	NA	NA	NA	NA	NA	24.7	24.0	19.5	13.1
Social Security Admin	NA	NA	NA	NA	NA	NA	NA	18.3	21.4	18.0	15.5
Dept of Housing & Urban Dev	12.7	18.4	33.8	33.5	36.9	32.7	30.5	23.8	19.6	16.7	10.3
Dept of the Interior, total	147.3	160.2	143.5	234.1	259.5	255.9	283.5	339.5	354.4	369.8	351.5
Bonneville Power Admin 8/	.3	.3	.4	.5	.5	NA	NA	NA	NA	6.5	NA
Bureau of Land Management	.8	.7	.6	.7	.7	.8	1.0	1.1	1.3	1.5	2.4
Bureau of Mines	40.7	41.5	30.5	52.9	73.3	52.3	57.0	79.1	82.8	68.0	81.1
Bureau of Reclamation	9.9	9.4	6.9	7.3	7.9	9.3	10.6	11.4	12.9	13.4	9.0
Geological Survey 12/	51.5	62.9	66.2	106.6	110.3	117.5	133.7	145.1	145.8	169.3	152.1
Heritage Conservation & Recreation Svc	.0	.0	.0	.0	.0	.0	-	-	-	-	-
Nat'l Park Svc	1.3	1.5	2.5	8.4	9.3	7.5	7.7	8.9	8.2	10.4	11.2
Off of Coal Rsch	4.2	5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	.3	4.1	.4	1.3	1.0	4.5	1.7	1.4	2.2	1.5	.5
Off of Surface Mining Reclamation & Enforcement	NA	NA	NA	NA	NA	-	2.2	5.0	7.5	5.8	1.5
Off of Water Rsch & Tech 12/	18.7	13.3	15.0	15.4	14.0	12.3	15.4	17.8	18.4	15.8	10.1
Off of Saline Water	5.4	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Water Resources Rsch	13.4	13.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
US Fish & Wildlife Svc	19.5	20.8	21.0	40.9	42.5	51.7	54.2	69.6	75.2	77.8	83.6

See explanatory information, if any, and SOURCE at end of table.

Table C-150A. Federal obligations for research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Justice, total	12.4	7.0	18.6	18.9	18.3	17.6	45.7	28.8	28.8	19.5	16.3
Bureau of Prisons 13/	-	-	-	-	-	.1	.7	.5	.9	1.7	.9
Drug Enforcement Admin	1.2	1.6	1.7	.9	.5	.9	.5	.7	.8	.4	1.3
Immigratn & Naturalizatn Svc	-	-	-	.0	.1	.1	.2	.1	.2	.1	.3
Off of Justice Programs	11.2	5.5	16.9	17.9	17.7	16.4	43.3	25.9	25.6	16.7	13.4
Off of Legal Policy	-	-	-	-	-	-	1.1	1.6	1.3	.7	.4
Dept of Labor, total	13.3	13.3	17.2	15.3	18.0	18.7	25.7	42.1	36.4	58.2	17.2
Bureau of Labor Stat	2.5	.8	.6	.7	.8	.9	.8	.9	.9	.3	.3
Employment Standards Admin	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3	4.9	3.2	1.4
Employment & Training Admin	8.3	8.8	11.7	7.1	7.5	6.4	14.9	25.9	20.1	48.8	8.7
Labor-Management Svcs Admin 14/	.7	.9	1.2	.8	.7	3.3	2.8	3.2	2.8	1.8	.7
Occupational Safety & Hlth Admin	-	.4	.5	1.4	2.9	3.4	1.3	5.1	6.3	3.0	4.9
Off of the Secretary	.2	1.2	2.3	2.0	1.8	.2	2.2	1.6	1.4	1.1	.9
Pension Benefit Guaranty Corporation	NA	NA	NA	NA	NA	NA	NA	NA	NA	.1	.3
Dept of State, total	25.7	24.6	17.8	22.5	25.1	38.3	49.1	2.7	2.0	1.6	1.5
Agency for Internat'l Dev 15/	25.2	23.9	16.8	21.7	24.0	36.2	46.6	NA	NA	NA	NA
Departmental funds	.6	.8	1.1	.7	1.1	2.1	2.5	2.7	2.0	1.6	NA
Dept of Transportation, total	98.2	77.2	61.8	53.8	31.1	51.8	66.5	67.0	82.4	88.6	66.7
Coast Guard	5.1	5.3	6.7	4.3	2.6	2.5	2.3	10.9	8.1	15.0	1.7
Fed Aviation Admin	22.2	17.8	13.9	14.1	3.6	4.7	6.8	7.5	8.2	8.2	7.0
Fed Highway Admin	20.3	1.8	3.3	3.4	1.9	5.3	4.9	4.4	4.6	5.1	5.3
Fed Railroad Admin	9.3	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	6.2	3.1
Maritime Admin 7/	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.5	6.6
Nat'l Highway Traffic Safety Admin	20.7	21.7	14.9	12.0	9.9	27.5	38.0	30.0	38.6	29.4	21.3
Off of the Secretary	12.8	9.0	15.2	14.4	3.9	4.2	4.1	.6	.6	.7	.3
Rsch & Special Programs Admin	NA	NA	NA	NA	NA	-	.1	5.0	5.5	5.2	2.1
Fed Transit Admin 16/	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.1	8.9	9.3	19.4
Dept of the Treasury, total	.5	.4	.5	.4	1.5	2.1	4.1	4.7	5.7	5.2	8.1
Bureau of Alcohol, Tobacco, & Firearms	-	-	-	-	-	.4	.4	.7	.3	.1	-
Bureau of Engraving & Printing	.5	.4	.5	.4	1.5	1.7	1.9	.6	1.3	.9	2.8
Internal Revenue Svc	-	-	-	-	-	-	1.8	3.5	3.9	4.2	5.3
US Customs Svc	-	-	-	-	-	-	-	-	.1	.1	.0
Dept of Veterans Affairs	67.1	69.7	78.7	87.1	85.1	92.3	99.4	111.4	117.9	127.7	123.0
Other agencies:											
Action	-	-	.1	.2	.1	.1	.2	-	-	-	-
Advisory Commission on Intergovernmental Relations	.7	.9	1.1	1.2	1.0	1.5	1.7	1.7	2.2	2.2	2.0
Agency for Internat'l Dev 15/	NA	NA	NA	NA	NA	NA	NA	66.9	79.7	86.4	127.9
Appalachian Regional Comm	-	-	-	-	.7	.6	.3	.7	.6	.3	.3
Atomic Energy Comm	417.1	424.8	NA	NA	NA	NA	NA	NA	NA	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-150A. Federal obligations for research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Civil Svc Comm	0.4	0.5	1.3	1.5	1.1	1.1	NA	NA	NA	NA	NA
Community Svcs Admin	NA	NA	.5	.2	-	1.0	2.0	1.8	1.3	1.9	NA
Consumer Product Safety Comm	-	.3	2.6	3.0	3.5	3.7	.9	1.8	1.6	.2	0.1
Energy Rsch & Dev Admin 9/	NA	NA	464.7	593.4	746.5	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	51.1	74.3	96.3	141.7	155.4	205.3	252.7	259.0	245.1	218.3	243.4
Fed Communications Comm	.7	1.1	.9	1.1	1.5	2.0	2.4	2.9	3.4	1.8	1.2
Fed Emergency Management Agency	NA	NA	NA	NA	NA	NA	4.8	9.7	9.3	9.1	9.2
Fed Energy Admin	NA	NA	-	.2	1.0	NA	NA	NA	NA	NA	NA
Fed Home Loan Bank Board 17/	.5	.5	.7	.7	.8	1.7	1.0	.9	1.2	1.0	2.7
Fed Trade Comm	.6	.7	.9	.9	.9	1.1	1.4	1.5	3.0	1.1	1.2
General Svcs Admin 18/	.1	.3	1.4	.9	.4	.4	2.2	.2	.1	.4	.5
Internat'l Trade Comm	-	-	-	-	1.5	2.6	3.1	3.4	2.1	3.4	3.8
Interstate Commerce Comm	-	-	-	-	.1	.1	.3	.2	.1	-	-
Library of Congress	1.2	1.4	.4	.4	.4	.4	.5	.6	.6	.9	.9
Nat'l Aeronautics & Space Admin	764.6	793.9	845.7	935.1	1,222.8	1,206.1	1,345.2	1,451.2	1,609.6	1,407.2	1,407.1
Nat'l Science Foundation	427.3	464.0	520.3	570.0	595.8	688.3	743.5	800.0	873.7	955.5	973.2
Nuclear Regulatory Comm	NA	NA	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7	220.3
Off of Economic Opportunity	55.3	32.3	-	-	NA	NA	NA	NA	NA	NA	NA
Off of Emergency Preparedness	.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Personnel Management	NA	NA	NA	NA	NA	NA	1.0	1.4	2.6	3.4	-
Off of Science and Tech	1.0	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Telecomm Policy	1.2	.6	.3	2.5	1.9	-	-	NA	NA	NA	NA
Off of Thrift Supervision 17/	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Small Business Admin	-	-	-	.2	.1	.5	-	-	-	-	-
Smithsonian Inst	21.3	24.0	24.7	24.8	25.7	29.7	34.9	36.9	41.0	44.9	52.4
Spec Action Office for Drug Abuse Prevention	-	12.0	11.1	3.8	-	NA	NA	NA	NA	NA	NA
Tennessee Valley Authority	8.3	12.5	11.6	14.7	16.5	22.9	13.5	16.5	15.8	14.2	12.7
US Arms Control & Disarmament Agency	1.5	1.7	1.1	1.0	1.4	1.8	2.5	2.7	3.0	1.6	1.3
US Information Agency 19/	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.1	-

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

10/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

11/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

12/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

13/ Formerly listed as Federal Prison System

14/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ Name changed from Urban Mass Transit Administration on December 18, 1991

17/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

18/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

19/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-150B. Federal obligations for research, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5	18,650.1	20,765.5	21,731.1	23,968.4	26,195.4	27,899.3
Departments:											
Dept of Agriculture, total	817.6	834.9	910.9	896.4	918.9	985.2	1,002.2	1,061.3	1,175.5	1,272.4	1,271.8
Agricultural Coop Svc 1/	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.5	3.1
Agricultural Marketing Svc 2/	1.1	1.2	1.3	1.3	1.2	1.3	1.3	2.2	3.7	4.1	3.7
Agricultural Rsch Svc 3/	417.9	424.3	442.0	436.0	454.6	479.4	492.1	512.3	550.8	586.9	611.1
Animal & Plant Health Inspection Svc	NA	NA	NA	4.2	4.9	5.6	7.4	-	-	-	-
Coop State Rsch Svc 4/	232.3	235.7	284.3	269.0	270.7	298.4	307.3	324.2	376.8	419.4	404.3
Econ Rsch Svc	38.8	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	58.7	60.4
Fed Grain Inspection Svc	NA	NA	.8	.6	.7	.6	.8	.2	.7	1.0	1.1
Forest Svc	103.9	105.1	109.8	109.7	122.9	131.5	127.5	153.8	170.2	183.0	172.5
Human Nutrition Info Svc	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.8	10.8
Nat'l Agricultural Stat Svc	7.6	8.2	8.4	8.0	3.4	3.6	2.9	2.8	3.2	3.4	3.5
Off of Internat'l Coop & Dev	4.8	7.5	7.3	6.6	5.3	4.8	2.3	3.4	3.0	1.5	1.3
Off of Transportation 2/	.8	.9	1.1	.9	.9	.9	-	-	-	-	-
Dept of Commerce, total	284.8	296.7	324.2	339.5	338.6	342.3	351.0	377.0	449.7	530.6	533.8
Bureau of the Census	2.2	2.4	2.5	2.6	2.8	3.8	3.0	4.9	4.8	4.0	3.8
Econ Dev Admin	5.3	5.1	2.0	2.3	5.0	4.2	1.0	1.2	1.4	.5	-
Nat'l Inst of Standards & Tech	81.5	83.7	86.5	89.1	89.4	98.9	105.6	111.8	124.3	167.5	181.7
Nat'l Oceanic & Atmospheric Admin	188.9	197.7	224.4	237.5	234.4	228.2	234.6	252.4	315.6	354.6	342.1
Nat'l Telecomm & Info Admin	6.9	7.7	7.9	7.6	7.0	7.3	6.9	6.8	3.6	4.0	6.3
Off of the Secretary	.0	.0	.9	.3	.0	-	-	-	-	-	-
Dept of Defense, total	3,222.6	3,048.5	3,168.3	3,227.3	3,347.6	3,239.1	3,656.1	3,529.2	3,717.9	4,098.0	4,526.8
Department of the Army	693.6	708.8	823.4	827.3	909.9	753.7	823.4	780.2	860.5	880.7	765.4
Department of the Navy	827.0	765.4	791.3	784.3	786.7	747.8	783.2	807.6	874.0	895.0	1,090.0
Department of the Air Force	688.4	740.1	736.7	759.0	784.8	773.1	807.4	776.3	830.4	804.4	1,014.7
Defense agencies	1,013.6	834.3	816.9	856.7	866.1	964.5	1,242.1	1,165.1	1,153.0	1,517.8	1,398.7
Health Affairs, Assistant Secretary of Defense for	-	-	-	-	-	-	-	-	-	-	258.1
Dept of Education	76.1	80.9	91.9	95.8	106.9	111.0	122.0	130.3	131.7	149.6	146.5
Dept of Energy 5/ 6/	1,961.1	2,024.9	2,141.0	2,040.3	2,097.9	2,235.4	2,431.7	2,570.5	3,273.6	3,599.4	3,620.9
Dept of Hlth & Humn Svcs, total	4,020.8	4,466.0	5,028.3	5,189.6	6,021.9	6,497.0	7,088.4	7,467.1	8,162.5	8,899.9	9,308.8
Admin on Aging 7/	NA	NA	NA	NA	NA	NA	NA	NA	2.9	2.9	2.9
Admin for Children & Families 7/	NA	NA	NA	NA	NA	NA	NA	-	13.5	14.4	16.0
Agency for Hlth Care Policy & Rsch 8/	NA	NA	NA	NA	NA	NA	NA	44.2	93.0	97.8	67.9
Alcohol, Drug Abuse, & Mental Hlth Admin	300.4	336.0	376.4	394.9	473.3	552.4	692.6	801.2	923.0	983.1	1,041.9
Centers for Disease Control	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	117.4	118.3
Food & Drug Admin	74.2	77.8	82.1	79.4	85.0	91.0	99.0	99.0	125.0	137.7	143.3
Hlth Care Financing Admin	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	78.4	36.0
Hlth Resources & Svcs Admin	11.0	16.2	18.2	12.3	9.3	10.0	10.5	11.9	11.0	11.2	11.1
Humn Dev Svcs 7/	6.9	4.5	5.8	6.8	9.4	7.1	8.5	7.7	NA	NA	NA
Nat'l Inst of Hlth	3,478.2	3,910.4	4,428.1	4,587.6	5,314.7	5,680.7	6,061.8	6,335.8	6,783.0	7,413.4	7,843.5
Off of Asst Sec for Hlth 8/	16.6	18.1	16.9	15.8	18.9	19.4	25.6	5.8	9.6	7.9	2.8
Off of the Secretary	14.4	10.0	9.4	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2
Social Security Admin	10.8	13.5	10.4	5.6	9.8	14.7	15.8	11.8	10.2	30.7	19.9
Dept of Housing & Urban Dev	11.3	6.3	6.5	5.3	5.5	6.3	6.1	6.6	9.4	10.4	13.2

See explanatory information, if any, and SOURCE at end of table.

Table C-150B. Federal obligations for research, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Dept of the Interior, total	357.7	380.2	369.3	367.9	382.1	392.5	441.9	475.2	553.4	566.7	506.2
Bureau of Land Management	2.0	1.8	2.8	2.1	2.1	2.2	2.0	2.1	5.9	6.3	11.0
Bureau of Mines	79.4	97.2	86.5	81.6	85.2	86.2	93.2	89.9	99.0	102.9	70.4
Bureau of Reclamation	8.8	9.0	11.2	9.7	10.2	3.7	3.5	5.3	7.8	10.7	8.3
Geological Survey 9/	154.7	204.0	210.5	211.2	216.5	225.3	266.9	293.2	338.4	344.7	313.9
Minerals Management Svc	1.5	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.7	3.7	3.7
Nat'l Park Svc	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	29.0	29.5
Off of the Secretary	7.4	.1	1.9	1.0	-	.1	-	-	.1	.2	2.0
Off of Surface Mining Reclamation & Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	.3	.4
Off of Water Rsch & Tech 9/	1.2	3.6	-	-	-	-	-	-	-	-	-
US Fish & Wildlife Svc	87.5	48.3	37.9	41.7	47.6	53.5	53.9	62.0	71.0	69.0	67.0
Dept of Justice, total	20.7	17.9	19.3	22.3	19.8	17.4	17.5	19.9	21.1	21.6	15.7
Bureau of Prisons 10/	1.3	1.2	1.1	2.7	2.2	2.1	2.1	1.8	1.9	2.0	2.0
Drug Enforcement Admin	.9	.7	.5	.8	.7	.6	.5	.4	.9	.3	.3
Immigratn & Naturalizatn Svc	.3	.3	.2	.2	.2	.3	.1	.4	.4	.4	.4
Off of Justice Programs	18.0	15.7	17.2	18.5	16.7	14.4	14.8	17.3	17.9	18.9	13.0
Off of Legal Policy	.2	-	.3	.2	.1	-	-	-	-	-	-
Dept of Labor, total	17.9	16.3	12.4	9.5	20.4	26.7	22.2	21.6	24.3	25.2	27.6
Bureau of Labor Stat	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	8.4
Employment Standards Admin	1.4	.9	.0	-	1.0	.1	.1	.1	-	-	-
Employment & Training Admin	7.9	6.1	3.5	3.5	5.4	6.8	6.1	6.0	6.6	6.8	4.0
Labor-Management Relations and Coop Programs 11/	NA	.3	.3	.2	.3	.4	.3	-	-	-	-
Labor-Management Svcs Admin 11/	.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Hlth Admin	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.2	3.2
Off of the Secretary	1.5	1.9	1.7	1.3	1.8	5.2	2.5	3.3	4.7	4.7	9.1
Pension Benefit Guaranty Corporation	.3	.3	.2	.1	.3	.3	.3	.3	.4	.5	.5
Pension & Welfare Benefit Admin	NA	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.5	2.4
Dept of State, total	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.3	5.3
Dept of Transportation, total	72.6	77.7	71.2	68.2	68.8	91.2	120.5	119.2	114.6	161.6	210.2
Coast Guard	1.2	7.2	5.4	3.5	3.7	5.4	4.6	5.1	6.4	7.2	7.4
Fed Aviation Admin	12.5	15.0	17.3	14.0	11.1	13.3	23.6	26.1	24.0	33.8	64.5
Fed Highway Admin	7.3	6.1	6.3	14.7	20.7	43.7	56.6	57.6	46.1	66.7	77.3
Fed Railroad Admin	2.8	12.3	11.4	12.5	10.4	8.2	7.5	8.5	13.2	24.2	21.2
Maritime Admin 12/	6.2	8.6	8.0	6.8	3.3	.5	-	.9	1.7	1.8	1.7
Nat'l Highway Traffic Safety Admin	21.4	24.7	20.9	16.1	18.9	19.1	26.2	16.9	21.4	25.8	35.8
Off of the Secretary	.3	.9	.9	.4	.4	.7	1.3	1.7	.6	.7	.8
Rsch & Special Programs Admin	2.6	1.8	.5	.3	.2	.4	.7	2.4	1.4	1.4	1.5
Fed Transit Admin 13/	18.3	1.0	.5	-	-	-	-	-	-	-	-
Dept of the Treasury, total	10.2	10.6	18.3	17.7	17.4	15.9	16.3	18.7	24.1	24.9	23.2
Bureau of Engraving & Printing	2.0	2.2	3.4	3.1	2.8	1.2	1.4	1.4	2.7	3.6	1.3
Internal Revenue Svc	7.9	8.1	14.7	14.0	14.1	13.7	14.1	16.5	17.5	17.5	17.5
Off of Protective Rsch	.3	.1	.2	.4	.2	.4	.4	.5	.4	.5	.6
Off of Thrift Supervision 14/	NA	NA	NA	NA	NA	NA	NA	-	3.0	3.0	3.2
US Customs Svc	-	.1	.1	.2	.2	.7	.4	.4	.5	.3	.7
Dept of Veterans Affairs	146.1	171.9	209.1	169.9	190.3	196.1	213.7	215.6	193.8	213.0	219.0

See explanatory information, if any, and SOURCE at end of table.

Table C-150B. Federal obligations for research, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Other agencies:											
Advisory Commission on Intergovernmental Relations	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.5	1.5
Agency for Internat'l Dev 15/	156.7	167.0	159.8	184.9	154.0	135.1	219.1	305.2	357.4	334.7	347.1
Appalachian Regional Comm	.2	.4	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Comm	.3	1.1	1.4	1.1	.6	.1	.5	.4	.9	.8	1.1
Environmental Protection Agency	174.6	172.0	214.6	217.8	277.2	267.9	273.3	315.2	353.1	415.2	435.2
Fed Communications Comm	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Fed Emergency Management Agency	3.3	6.1	2.9	NA	NA	NA	NA	NA	NA	NA	NA
Fed Home Loan Bank Board 14/	3.0	2.6	2.8	3.3	3.4	3.4	NA	NA	NA	NA	NA
Fed Trade Comm	1.4	1.6	1.7	1.8	.5	.4	.4	.5	1.0	.5	.5
General Svcs Admin 16/	.2	.4	.4	.9	1.6	2.3	.5	.7	-	-	-
Internat'l Trade Comm	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	11.7	12.5
Library of Congress	1.3	2.1	2.1	1.6	1.5	1.6	1.6	1.5	1.7	2.0	2.0
Nat'l Aeronautics & Space Admin	1,544.8	1,709.2	1,783.8	2,069.0	2,269.2	2,331.6	2,878.8	3,060.7	3,371.2	3,664.1	4,163.2
Nat'l Archives and Records Admin 16/	NA	NA	.2	-	.7	.5	.2	.3	.6	.3	.3
Nat'l Science Foundation	1,062.0	1,202.8	1,345.6	1,353.3	1,470.5	1,532.8	1,670.4	1,689.5	1,785.2	1,936.5	2,246.9
Nuclear Regulatory Comm	207.3	190.7	150.0	123.8	122.5	108.5	114.8	217.5	108.8	118.9	127.7
Off of Thrift Supervision 14/	NA	NA	NA	NA	NA	NA	4.1	4.1	-	-	-
Smithsonian Inst	56.0	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.0	100.0	118.0
Tennessee Valley Authority	12.3	14.3	14.4	17.8	17.7	18.5	14.6	21.7	18.8	24.1	9.9
US Arms Control & Disarmament Agency	.8	1.2	1.1	.9	.4	.8	1.2	.2	.4	2.1	1.0
US Information Agency 17/	.0	1.4	.1	1.6	-	.1	-	.5	.1	1.0	.6

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

7/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

8/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

9/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

10/ Formerly listed as Federal Prison System

11/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

12/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

13/ Name changed from Urban Mass Transit Administration on December 18, 1991

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

17/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-151A. Federal obligations for basic research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	2,186.9	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,481.6
Departments:											
Dept of Agriculture, total	137.3	142.7	145.6	154.2	171.4	204.5	242.7	256.4	275.7	314.1	330.8
Agricultural Rsch Svc 1/	82.9	84.6	85.5	91.2	101.7	125.6	142.4	143.2	157.8	186.4	192.9
Coop State Rsch Svc 2/	31.4	34.0	34.0	38.4	43.1	48.4	65.6	70.5	75.2	83.9	91.3
Econ, Stat & Coop Svc 3/	NA	NA	NA	NA	NA	3.8	3.9	6.4	NA	NA	NA
Econ Rsch Svc	4.6	4.8	5.4	3.2	3.6	NA	NA	NA	NA	3.6	3.9
Econ & Stat Svc 4/	NA	NA	NA	NA	NA	NA	NA	NA	6.6	NA	NA
Forest Svc	18.3	19.3	20.7	21.1	22.6	26.7	30.8	31.4	33.7	38.1	38.7
Nat'l Agricultural Stat Svc	.1	.1	.0	.3	.4	NA	NA	NA	NA	-	2.3
Off of Internat'l Coop & Dev	NA	NA	NA	NA	NA	NA	NA	-	2.3	1.7	1.1
Off of Transportation 5/	NA	NA	NA	NA	NA	NA	NA	-	-	.5	.5
Dept of Commerce, total	7.9	6.6	7.7	8.1	11.0	12.3	11.8	11.9	15.9	16.2	16.9
Bureau of the Census	.3	.2	.2	.2	.2	.2	.5	.8	.5	.4	.3
Econ Dev Admin	-	-	-	-	1.7	1.0	2.7	.5	.3	.2	-
Maritime Admin 6/	2.7	1.8	1.2	1.7	1.2	1.2	2.7	2.0	2.0	NA	NA
Minority Business Dev Agency	-	-	-	-	-	.2	-	-	-	-	-
Nat'l Fire Prevention & Control Admin	-	-	-	.7	2.1	2.7	NA	NA	NA	NA	NA
Nat'l Inst of Standards & Tech	4.9	4.5	6.2	5.4	5.8	6.9	5.9	8.8	12.8	15.6	16.5
Nat'l Telecomm & Info Admin	NA	NA	NA	NA	NA	.1	-	-	-	-	-
Off of Telecommunications	-	.2	.2	.1	.1	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	-	-	-	-	-	-	.3	-	.0
Dept of Defense, total	328.8	306.7	302.9	300.1	326.9	373.3	410.4	471.5	540.3	604.3	686.7
Department of the Army	82.5	76.9	76.3	71.7	81.4	99.0	104.1	115.0	132.2	148.1	187.7
Department of the Navy	124.6	112.7	114.2	118.7	129.7	153.8	172.1	192.1	214.9	238.0	280.3
Department of the Air Force	86.4	79.9	77.5	78.9	83.9	84.8	95.1	105.0	108.2	125.8	145.8
Defense agencies	35.4	37.2	34.9	30.7	31.9	35.6	39.1	59.3	85.1	92.4	72.9
Dept of Education	NA	NA	NA	NA	NA	NA	NA	20.0	17.6	20.6	14.2
Dept of Energy 7/ 8/	NA	NA	NA	NA	NA	389.5	440.5	463.0	523.1	586.3	642.2
Dept of Hlth, Education, & Welfare, total	665.4	667.3	850.1	903.7	986.2	1,119.5	1,292.3	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	52.6	53.3	66.2	52.6	62.7	79.9	NA	NA	NA	NA
Hlth Resources Admin	-	7.4	7.4	-	3.1	-	-	NA	NA	NA	NA
Hlth Svcs Admin	NA	1.5	.6	1.2	.3	.0	.6	NA	NA	NA	NA
Hlth Svcs & Mental Hlth Admin	75.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nat'l Inst of Education	-	11.4	4.8	1.9	5.1	11.9	18.3	NA	NA	NA	NA
Nat'l Inst of Hlth	585.7	593.0	775.3	828.5	920.3	1,032.8	1,181.1	NA	NA	NA	NA
Off of Asst Sec for Hlth	-	-	-	-	-	4.0	5.1	NA	NA	NA	NA
Off of Education	3.7	.1	.2	-	-	-	-	NA	NA	NA	NA
Off of Humn Dev Svcs	-	-	-	-	-	2.2	2.2	NA	NA	NA	NA
Off of Internat'l Hlth	-	.7	2.7	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	4.2	4.1	4.9	4.0	5.1	NA	NA	NA	NA
Social Security Admin	.6	.8	1.6	1.8	-	-	-	NA	NA	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-151A. Federal obligations for basic research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	1,576.0	1,762.7	1,900.4	2,144.7
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	NA	NA	NA	NA	NA	NA	94.6	104.7	116.3	117.3
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	.6
Hlth Svcs Admin	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	3.8	NA
Humn Dev Svcs 9/	NA	NA	NA	NA	NA	NA	NA	-	-	.4	.4
Nat'l Inst of Hlth	NA	NA	NA	NA	NA	NA	NA	1,463.7	1,642.3	1,766.8	2,020.7
Off of Asst Sec for Hlth 10/	NA	NA	NA	NA	NA	NA	NA	13.6	11.6	12.4	5.7
Off of the Secretary	NA	NA	NA	NA	NA	NA	NA	2.1	2.0	.6	-
Dept of the Interior, total	43.1	48.7	48.7	54.9	54.3	63.6	65.9	72.5	71.6	80.7	76.5
Bonneville Power Admin 7/	-	-	-	-	-	NA	NA	NA	NA	.4	NA
Bureau of Mines	7.8	6.9	5.6	1.9	.8	4.0	8.6	13.7	11.5	13.6	15.9
Bureau of Reclamation	.1	.1	.1	.0	.1	.1	.2	.1	.2	.1	.1
Geological Survey 11/	21.5	27.7	27.2	38.6	39.5	40.3	46.3	49.0	47.3	53.5	52.6
Nat'l Park Svc	.9	.8	1.0	.6	.6	-	-	-	-	-	-
Off of Coal Rsch	-	.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	.7	-	-	1.0	3.2	1.7	1.4	2.2	1.5	.5
Off of Water Rsch & Tech 11/	4.2	3.2	3.7	3.9	3.6	2.9	4.6	4.6	6.6	7.6	3.3
Off of Saline Water	1.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Water Resources Rsch	2.9	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
US Fish & Wildlife Svc	8.6	9.3	11.0	9.9	8.8	13.1	4.5	3.7	3.8	3.9	4.1
Dept of Justice, total	-	2.1	2.1	9.5	4.5	5.1	14.7	7.9	9.5	4.6	3.1
Off of Justice Programs	-	2.1	2.1	9.5	4.5	5.1	14.7	7.9	9.5	4.6	3.1
Dept of Labor, total	1.1	1.3	1.2	.9	1.0	.7	3.7	2.3	3.9	3.7	6.5
Employment & Training Admin	.4	.4	.6	.5	.6	.6	3.5	1.8	3.9	3.7	6.5
Labor-Management Svcs Admin 12/	.7	.9	.6	.3	.3	.1	.2	.5	-	-	-
Dept of State, total	-	-	-	1.5	-	-	-	.0	-	-	-
Agency for Internat'l Dev 13/	-	-	-	1.5	-	-	-	NA	NA	NA	NA
Departmental funds	-	-	-	-	-	-	-	.0	-	-	NA
Dept of Transportation, total	.5	.2	.3	.1	-	-	-	-	-	1.2	1.0
Coast Guard	.0	.1	.2	.1	-	-	-	-	-	.3	-
Fed Highway Admin	.2	-	-	-	-	-	-	-	-	-	-
Maritime Admin 6/	NA	NA	NA	NA	NA	NA	NA	NA	NA	.7	1.0
Off of the Secretary	.4	.0	.1	-	-	-	-	-	-	-	-
Rsch & Special Programs Admin	NA	NA	NA	NA	NA	-	-	-	-	.3	-
Dept of the Treasury, total	-	-	-	-	-	-	-	.2	1.7	2.3	2.2
Internal Revenue Svc	-	-	-	-	-	-	-	.2	1.7	2.3	2.2
Dept of Veterans Affairs	3.2	3.2	3.6	3.9	8.9	9.1	8.9	9.5	14.3	15.0	12.9

See explanatory information, if any, and SOURCE at end of table.

Table C-151A. Federal obligations for basic research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Other agencies:											
Action	-	-	.1	.1	.0	.1	-	-	-	-	-
Atomic Energy Comm	268.3	275.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Civil Svc Comm	.1	.2	.2	.6	.3	.4	NA	NA	NA	NA	NA
Consumer Product Safety Comm	-	-	-	-	-	-	-	-	-	.1	-
Energy Rsch & Dev Admin 8/	NA	NA	269.5	312.8	345.8	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	6.1	9.0	9.5	17.4	13.7	8.3	6.0	10.1	13.6	10.5	32.7
Fed Emergency Management Agency	NA	NA	NA	NA	NA	NA	2.8	3.0	2.6	2.6	1.4
Fed Trade Comm	-	-	-	-	.3	.4	.5	.4	1.5	.9	1.0
General Svcs Admin 14/	-	.0	.5	.3	.1	.1	1.8	.0	-	-	-
Library of Congress	-	-	-	-	.2	.1	.1	.1	.1	.2	.1
Nat'l Aeronautics & Space Admin	331.6	350.3	305.9	309.3	293.2	413.8	479.7	512.8	559.1	531.1	535.7
Nat'l Science Foundation	367.7	392.4	415.2	486.0	523.6	624.9	678.0	733.3	815.2	896.6	916.1
Off of Economic Opportunity	4.2	.9	-	-	NA	NA	NA	NA	NA	NA	NA
Off of Science and Tech	.4	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Telecomm Policy	-	-	-	.4	.4	-	-	NA	NA	NA	NA
Smithsonian Inst	21.3	24.0	24.7	24.8	25.7	29.7	34.9	36.9	41.0	44.9	52.4
Spec Action Office for Drug Abuse Prevention	-	1.0	-	-	-	NA	NA	NA	NA	NA	NA
Tennessee Valley Authority	-	-	-	-	-	3.5	3.8	4.1	4.6	4.8	4.6
US Information Agency 15/	-	-	-	-	-	-	-	-	-	.1	-

1/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

2/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

3/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

4/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

5/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

6/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

7/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

8/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

9/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

10/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

11/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

12/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

13/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

14/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

15/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-151B. Federal obligations for basic research, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8	13,254.1	14,184.3
Departments:											
Dept of Agriculture, total	362.0	392.6	445.4	432.9	445.5	480.6	484.9	519.2	557.6	614.4	642.2
Agricultural Marketing Svc 1/	-	-	-	-	-	-	-	.5	-	-	-
Agricultural Rsch Svc 2/	215.3	240.6	250.2	247.7	253.4	271.1	282.7	294.0	309.7	337.4	351.4
Coop State Rsch Svc 3/	98.8	99.6	141.5	131.7	132.8	145.8	142.6	153.7	170.4	194.8	212.7
Econ Rsch Svc	3.9	4.4	4.6	4.5	6.3	6.7	6.9	7.1	7.6	8.2	8.5
Forest Svc	38.8	41.2	44.1	42.2	49.4	51.6	50.0	60.3	66.6	71.7	67.5
Nat'l Agricultural Stat Svc	2.5	2.7	2.8	2.6	1.1	1.2	1.0	.9	1.1	1.1	1.1
Off of Internat'l Coop & Dev	2.3	3.6	1.5	3.7	1.9	3.6	1.7	2.6	2.2	1.2	1.0
Off of Transportation 1/	.5	.6	.6	.5	.5	.5	-	-	-	-	-
Dept of Commerce, total	19.2	20.6	23.2	26.5	25.8	30.9	29.1	31.4	34.3	34.9	39.5
Bureau of the Census	.3	.4	.4	.5	.7	1.3	1.2	2.8	2.4	1.3	1.1
Econ Dev Admin	.5	-	-	-	-	-	-	-	-	-	-
Nat'l Inst of Standards & Tech	18.4	20.2	22.1	25.7	25.1	26.3	27.9	28.6	31.9	33.6	38.4
Nat'l Oceanic & Atmospheric Admin	-	-	-	-	-	3.2	-	-	-	-	-
Off of the Secretary	.0	-	.8	.3	-	-	-	-	-	-	-
Dept of Defense, total	785.6	847.9	861.4	923.9	907.6	876.9	947.9	947.6	994.2	1,094.4	1,161.8
Department of the Army	208.3	222.1	240.8	248.5	217.0	165.7	187.2	185.1	188.6	191.1	174.2
Department of the Navy	305.4	315.8	343.1	337.3	354.3	341.8	354.0	365.0	388.0	394.0	471.0
Department of the Air Force	164.2	192.4	198.3	216.5	221.6	196.4	202.8	197.0	209.2	173.8	185.5
Defense agencies	107.7	117.6	79.2	121.7	114.8	173.0	203.9	200.5	208.3	335.5	272.6
Health Affairs, Assistant Secretary of Defense for	-	-	-	-	-	-	-	-	-	-	58.6
Dept of Education	14.2	12.2	14.6	4.5	3.1	4.4	4.4	4.9	8.6	6.3	6.5
Dept of Energy 4/ 5/	767.7	830.4	942.6	959.7	1,068.5	1,184.8	1,410.9	1,504.8	1,686.5	1,808.6	1,873.4
Dept of Hlth & Humn Svcs, total	2,475.4	2,814.5	3,232.5	3,338.8	3,827.9	4,081.4	4,388.0	4,649.0	5,050.1	5,511.4	5,848.6
Alcohol, Drug Abuse, & Mental Hlth Admin	145.0	170.8	196.8	203.4	232.2	265.8	308.0	386.2	459.1	490.5	519.2
Hlth Resources & Svcs Admin	.8	.8	.9	1.0	1.3	1.1	1.2	1.2	1.5	1.8	1.4
Nat'l Inst of Hlth	2,313.0	2,624.8	3,018.0	3,118.6	3,575.5	3,795.1	4,053.3	4,261.7	4,589.5	5,019.4	5,328.0
Off of Asst Sec for Hlth 6/	16.6	18.1	16.9	15.8	18.9	19.4	25.6	-	-	-	-
Dept of the Interior, total	103.0	125.9	138.3	133.0	134.9	126.5	188.9	205.4	229.3	232.2	194.8
Bureau of Land Management	-	-	-	-	-	-	-	-	1.1	1.8	2.1
Bureau of Mines	23.5	40.5	49.9	44.9	45.6	32.1	43.9	40.6	42.8	44.5	26.8
Bureau of Reclamation	.1	.1	.3	.1	.1	.1	.0	.1	.1	-	-
Geological Survey 7/	64.7	78.9	80.5	83.4	84.9	89.5	140.2	159.1	179.1	180.1	159.9
Off of the Secretary	7.4	.1	1.9	1.0	-	-	-	-	-	-	-
Off of Water Rsch & Tech 7/	.5	.4	-	-	-	-	-	-	-	-	-
US Fish & Wildlife Svc	6.9	5.9	5.7	3.6	4.3	4.8	4.8	5.6	6.2	6.1	5.9

See explanatory information, if any, and SOURCE at end of table.

Table C-151B. Federal obligations for basic research, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Dept of Justice, total	3.6	4.7	4.2	5.3	8.1	7.6	6.8	8.8	6.4	5.1	3.0
Off of Justice Programs	3.6	4.7	4.2	5.3	8.1	7.6	6.8	8.8	6.4	5.1	3.0
Dept of Labor, total	5.3	5.0	3.3	.9	1.4	.4	.3	.3	.3	.4	.2
Employment & Training Admin	5.3	5.0	3.3	.9	1.4	.4	.3	.3	.3	.3	.2
Pension Benefit Guaranty Corporation	-	-	-	-	-	-	-	-	-	.1	-
Dept of State, total	-	-	-	-	2.6	3.1	3.4	3.5	4.6	4.9	4.9
Dept of Transportation, total	.9	3.5	1.1	.6	.2	-	-	-	-	-	-
Coast Guard	.4	-	-	-	-	-	-	-	-	-	-
Maritime Admin 8/	.5	3.5	1.1	.6	.2	-	-	-	-	-	-
Dept of the Treasury, total	3.5	4.0	4.8	5.1	4.7	4.8	3.4	3.4	3.6	3.6	3.6
Bureau of Engraving & Printing	.6	.8	.3	.4	.1	.1	.5	-	-	-	-
Internal Revenue Svc	2.9	3.2	4.4	4.5	4.4	4.7	2.9	3.4	3.6	3.6	3.6
Off of Protective Rsch	-	-	-	.2	.2	.1	-	-	-	-	-
Dept of Veterans Affairs	14.1	15.8	15.4	14.8	17.2	17.3	16.6	16.2	16.1	15.7	13.1
Other agencies:											
Agency for Internat'l Dev 9/	4.1	3.0	1.7	4.3	2.8	3.0	3.1	5.0	5.7	5.0	4.7
Environmental Protection Agency	22.2	29.6	38.6	38.5	31.1	27.2	50.7	73.6	91.2	102.9	115.9
Fed Trade Comm	1.2	1.3	1.5	1.6	-	-	-	-	-	-	-
General Svcs Admin 10/	-	.1	.1	-	-	-	-	-	-	-	-
Library of Congress	.3	.6	.6	.4	.4	.4	.4	.3	.4	.5	.5
Nat'l Aeronautics & Space Admin	617.0	754.5	750.9	916.7	1,013.7	1,112.7	1,417.4	1,636.9	1,705.6	1,902.7	2,060.2
Nat'l Archives and Records Admin 10/	NA	NA	.1	-	.5	.2	.1	.2	.4	.2	.1
Nat'l Science Foundation	999.1	1,132.3	1,261.8	1,275.2	1,371.2	1,433.2	1,562.6	1,586.3	1,676.2	1,808.6	2,093.6
Smithsonian Inst	56.0	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.0	100.0	118.0
Tennessee Valley Authority	5.6	5.1	5.5	7.3	3.9	3.2	2.9	4.7	1.9	2.3	-

1/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

2/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

3/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

4/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

5/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

6/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

7/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

8/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

9/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

10/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-152A. Federal obligations for applied research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	3,360.8	3,349.4	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,540.6
Departments:											
Dept of Agriculture, total	199.9	211.4	219.5	247.8	270.9	319.6	351.8	375.5	381.8	426.9	435.7
Agricultural Coop Svc 1/	1.1	1.2	1.4	1.2	1.2	NA	NA	NA	1.6	1.7	1.7
Agricultural Marketing Svc 2/	NA	NA	NA	NA	NA	NA	NA	.4	1.0	.9	1.0
Agricultural Rsch Svc 3/	101.0	105.1	107.9	112.9	125.9	155.4	161.3	172.7	170.8	181.5	186.2
Coop State Rsch Svc 4/	51.2	55.4	55.4	62.7	70.3	78.9	91.9	102.1	109.0	115.5	127.7
Econ, Stat & Coop Svc 5/	NA	NA	NA	NA	NA	25.9	28.8	29.1	NA	NA	NA
Econ Rsch Svc	11.4	12.2	12.7	18.1	20.4	NA	NA	NA	NA	35.8	35.3
Econ & Stat Svc 6/	NA	NA	NA	NA	NA	NA	NA	NA	24.5	NA	NA
Forest Svc	34.6	36.8	41.6	52.2	51.9	59.4	69.8	71.1	72.3	81.8	69.0
Human Nutrition Info Svc	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	8.5
Nat'l Agricultural Library	.2	.3	.1	.0	.0	-	-	-	-	-	-
Nat'l Agricultural Stat Svc	.4	.4	.4	.7	1.1	NA	NA	NA	NA	7.5	4.7
Off of Internat'l Coop & Dev	NA	NA	NA	NA	NA	NA	NA	-	2.6	1.9	1.2
Off of Transportation 2/	NA	NA	NA	NA	NA	NA	NA	-	-	.3	.3
Dept of Commerce, total	135.5	123.5	121.5	136.3	144.7	163.8	181.0	207.6	238.5	233.2	259.2
Bureau of the Census	1.5	.4	.5	.4	2.0	1.8	1.8	1.2	1.4	2.6	1.6
Econ Dev Admin	.8	.9	.9	1.1	.4	1.5	3.2	8.0	2.2	1.6	1.6
Maritime Admin 7/	17.9	4.2	4.6	4.0	3.8	2.5	4.3	10.2	10.1	NA	NA
Minority Business Dev Agency	-	-	.2	.9	.4	.5	-	-	-	-	-
Nat'l Fire Prevention & Control Admin	-	-	-	.0	1.1	1.8	NA	NA	NA	NA	NA
Nat'l Inst of Standards & Tech	25.0	26.6	26.5	29.4	31.7	38.0	42.6	43.0	46.1	50.6	57.4
Nat'l Oceanic & Atmospheric Admin	90.2	89.1	87.1	99.7	104.9	115.8	127.9	142.7	168.8	168.5	188.5
Nat'l Telecomm & Info Admin	NA	NA	NA	NA	NA	1.9	1.1	2.4	9.6	9.9	10.1
Off of Telecommunications	-	2.0	1.5	.5	.2	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	-	-	-	-	-	.1	.2	-	-
Patent and Trademark Office	-	-	.2	.3	.2	-	-	-	-	-	-
US Travel & Tourism Admin	-	.4	-	-	-	-	-	-	-	-	-
Dept of Defense, total	1,175.8	1,129.4	1,131.5	1,130.9	1,200.6	1,342.6	1,413.6	1,542.6	1,721.4	1,996.6	2,266.1
Department of the Army	289.1	300.2	290.1	264.7	281.0	299.0	305.7	333.6	347.1	388.4	451.6
Department of the Navy	281.8	273.7	287.1	287.8	308.3	343.6	354.2	375.2	396.2	460.0	498.4
Department of the Air Force	255.9	261.1	264.1	276.9	298.4	341.0	353.6	387.2	429.1	491.5	488.1
Defense agencies	345.0	291.2	287.3	299.9	312.2	357.8	392.5	446.6	549.1	656.7	828.1
Defense Civil Preparedness Agency	4.0	3.2	2.7	1.7	.7	1.3	7.5	NA	NA	NA	NA
Dept of Education	NA	NA	NA	NA	NA	NA	NA	72.8	70.0	33.2	56.3
Dept of Energy 8/ 9/	NA	NA	NA	NA	NA	501.8	661.7	668.9	754.2	827.3	1,053.9

See explanatory information, if any, and SOURCE at end of table.

Table C-152A. Federal obligations for applied research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Hlth, Education, & Welfare, total	766.7	776.9	996.6	1,021.1	1,164.6	1,294.8	1,448.4	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	69.6	102.3	73.2	84.1	89.3	98.8	NA	NA	NA	NA
Centers for Disease Control	NA	38.3	44.9	42.6	49.6	55.3	60.1	NA	NA	NA	NA
Food & Drug Admin	30.4	30.2	43.5	35.9	37.1	42.9	64.1	NA	NA	NA	NA
Hlth Care Financing Admin	NA	NA	NA	NA	NA	30.0	19.4	NA	NA	NA	NA
Hlth Resources Admin	-	3.7	2.3	16.7	27.9	7.4	5.0	NA	NA	NA	NA
Hlth Svcs Admin	NA	8.6	8.7	9.4	9.2	7.5	10.0	NA	NA	NA	NA
Hlth Svcs & Mental Hlth Admin	125.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nat'l Inst of Education	-	4.7	4.7	2.2	5.7	15.2	16.3	NA	NA	NA	NA
Nat'l Inst of Hlth	513.7	539.1	714.3	775.7	847.4	935.9	1,051.5	NA	NA	NA	NA
Off of Asst Sec for Education	-	-	-	.6	1.0	1.0	1.3	NA	NA	NA	NA
Off of Asst Sec for Hlth	-	-	-	-	-	24.6	27.5	NA	NA	NA	NA
Off of Child Dev	12.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Education	32.3	6.6	6.3	5.3	21.4	11.9	13.3	NA	NA	NA	NA
Off of Humn Dev Svcs	-	10.1	17.2	7.1	34.6	46.5	42.9	NA	NA	NA	NA
Off of the Secretary	-	-	25.6	22.2	18.8	16.0	25.1	NA	NA	NA	NA
Social & Rehabilitation Svc	39.9	48.3	8.9	9.6	18.6	NA	NA	NA	NA	NA	NA
Social Security Admin	13.0	17.7	17.8	20.8	9.1	11.2	12.9	NA	NA	NA	NA
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	1,439.7	1,570.1	1,591.9	1,460.9
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	NA	NA	NA	NA	NA	NA	118.9	128.8	121.4	128.7
Centers for Disease Control	NA	NA	NA	NA	NA	NA	NA	76.3	87.3	74.8	75.0
Food & Drug Admin	NA	NA	NA	NA	NA	NA	NA	61.0	75.4	71.4	73.0
Hlth Care Financing Admin	NA	NA	NA	NA	NA	NA	NA	31.8	45.7	38.6	29.1
Hlth Resources Admin	NA	NA	NA	NA	NA	NA	NA	4.9	5.1	5.0	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.1
Hlth Svcs Admin	NA	NA	NA	NA	NA	NA	NA	8.2	6.0	6.4	NA
Humn Dev Svcs 10/	NA	NA	NA	NA	NA	NA	NA	14.9	19.1	39.5	8.3
Nat'l Inst of Hlth	NA	NA	NA	NA	NA	NA	NA	1,066.4	1,145.1	1,181.5	1,103.8
Off of Asst Sec for Hlth 11/	NA	NA	NA	NA	NA	NA	NA	16.3	14.1	16.3	8.2
Off of the Secretary	NA	NA	NA	NA	NA	NA	NA	22.6	22.0	18.9	13.1
Social Security Admin	NA	NA	NA	NA	NA	NA	NA	18.3	21.4	18.0	15.5
Dept of Housing & Urban Dev	12.7	18.4	33.8	33.5	36.9	32.7	30.5	23.8	19.6	16.7	10.3
Dept of the Interior, total	104.3	111.4	94.8	179.1	205.1	192.4	217.6	266.9	282.8	289.2	275.0
Bonneville Power Admin 8/	.3	.3	.4	.5	.5	NA	NA	NA	NA	6.1	NA
Bureau of Land Management	.8	.7	.6	.7	.7	.8	1.0	1.1	1.3	1.5	2.4
Bureau of Mines	32.8	34.6	24.9	51.0	72.5	48.3	48.4	65.4	71.3	54.4	65.2
Bureau of Reclamation	9.9	9.3	6.8	7.3	7.9	9.2	10.4	11.3	12.7	13.3	8.9
Geological Survey 12/	30.1	35.1	39.0	68.0	70.8	77.2	87.4	96.1	98.5	115.8	99.4
Heritage Conservation & Recreation Svc	.0	.0	.0	.0	.0	.0	-	-	-	-	-
Nat'l Park Svc	.4	.7	1.5	7.7	8.7	7.5	7.7	8.9	8.2	10.4	11.2
Off of Coal Rsch	4.2	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	.3	3.4	.4	1.3	.1	1.4	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	NA	NA	NA	NA	NA	-	2.2	5.0	7.5	5.8	1.5
Off of Water Rsch & Tech 12/	14.6	10.2	11.2	11.6	10.4	9.4	10.8	13.2	11.8	8.2	6.8
Off of Saline Water	4.1	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Water Resources Rsch	10.4	10.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
US Fish & Wildlife Svc	10.9	11.5	9.9	31.0	33.7	38.6	49.7	65.9	71.4	73.9	79.6

See explanatory information, if any, and SOURCE at end of table.

Table C-152A. Federal obligations for applied research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Justice, total	12.4	4.9	16.5	9.4	13.8	12.5	31.0	20.9	19.2	14.9	13.2
Bureau of Prisons 13/	-	-	-	-	-	.1	.7	.5	.9	1.7	.9
Drug Enforcement Admin	1.2	1.6	1.7	.9	.5	.9	.5	.7	.8	.4	1.3
Immigratn & Naturalizatn Svc	-	-	-	.0	.1	.1	.2	.1	.2	.1	.3
Off of Justice Programs	11.2	3.4	14.8	8.5	13.2	11.3	28.6	18.0	16.1	12.0	10.3
Off of Legal Policy	-	-	-	-	-	-	1.1	1.6	1.3	.7	.4
Dept of Labor, total	12.2	12.0	16.0	14.4	17.0	18.0	22.0	39.8	32.6	54.5	10.6
Bureau of Labor Stat	2.5	.8	.6	.7	.8	.9	.8	.9	.9	.3	.3
Employment Standards Admin	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3	4.9	3.2	1.4
Employment & Training Admin	7.8	8.3	11.1	6.6	6.9	5.8	11.4	24.2	16.2	45.1	2.1
Labor-Management Svcs Admin 14/	-	-	.6	.5	.4	3.2	2.6	2.7	2.8	1.8	.7
Occupational Safety & Hlth Admin	-	.4	.5	1.4	2.9	3.4	1.3	5.1	6.3	3.0	4.9
Off of the Secretary	.2	1.2	2.3	2.0	1.8	.2	2.2	1.6	1.4	1.1	.9
Pension Benefit Guaranty Corporation	NA	NA	NA	NA	NA	NA	NA	NA	NA	.1	.3
Dept of State, total	25.7	24.6	17.8	21.0	25.1	38.3	49.1	2.6	2.0	1.6	1.5
Agency for Internat'l Dev 15/	25.2	23.9	16.8	20.2	24.0	36.2	46.6	NA	NA	NA	NA
Departmental funds	.6	.8	1.1	.7	1.1	2.1	2.5	2.6	2.0	1.6	NA
Dept of Transportation, total	97.6	77.1	61.5	53.8	31.1	51.8	66.5	67.0	82.4	87.4	65.7
Coast Guard	5.1	5.1	6.6	4.2	2.6	2.5	2.3	10.9	8.1	14.7	1.7
Fed Aviation Admin	22.2	17.8	13.9	14.1	3.6	4.7	6.8	7.5	8.2	8.2	7.0
Fed Highway Admin	20.1	1.8	3.3	3.4	1.9	5.3	4.9	4.4	4.6	5.1	5.3
Fed Railroad Admin	9.3	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	6.2	3.1
Maritime Admin 7/	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.9	5.6
Nat'l Highway Traffic Safety Admin	20.7	21.7	14.9	12.0	9.9	27.5	38.0	30.0	38.6	29.4	21.3
Off of the Secretary	12.5	8.9	15.1	14.4	3.9	4.2	4.1	.6	.6	.7	.3
Rsch & Special Programs Admin	NA	NA	NA	NA	NA	-	.1	5.0	5.5	4.9	2.1
Fed Transit Admin 16/	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.1	8.9	9.3	19.4
Dept of the Treasury, total	.5	.4	.5	.4	1.5	2.1	4.1	4.5	4.0	2.9	5.9
Bureau of Alcohol, Tobacco, & Firearms	-	-	-	-	-	.4	.4	.7	.3	.1	-
Bureau of Engraving & Printing	.5	.4	.5	.4	1.5	1.7	1.9	.6	1.3	.9	2.8
Internal Revenue Svc	-	-	-	-	-	-	1.8	3.3	2.2	1.8	3.1
US Customs Svc	-	-	-	-	-	-	-	-	.1	.1	.0
Dept of Veterans Affairs	63.9	66.5	75.2	83.3	76.2	83.2	90.5	101.8	103.6	112.7	110.1
Other agencies:											
Action	-	-	.0	.1	.0	.0	.2	-	-	-	-
Advisory Commission on Intergovernmental Relations	.7	.9	1.1	1.2	1.0	1.5	1.7	1.7	2.2	2.2	2.0
Agency for Internat'l Dev 15/	NA	NA	NA	NA	NA	NA	NA	66.9	79.7	86.4	127.9
Appalachian Regional Comm	-	-	-	-	.7	.6	.3	.7	.6	.3	.3
Atomic Energy Comm	148.8	149.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Civil Svc Comm	.3	.3	1.1	1.0	.8	.7	NA	NA	NA	NA	NA
Community Svcs Admin	NA	NA	.5	.2	-	1.0	2.0	1.8	1.3	1.9	NA
Consumer Product Safety Comm	-	.3	2.6	3.0	3.5	3.7	.9	1.8	1.6	.2	.1
Energy Rsch & Dev Admin 9/	NA	NA	195.2	280.7	400.7	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	45.0	65.3	86.8	124.3	141.7	197.0	246.7	248.9	231.5	207.8	210.7

See explanatory information, if any, and SOURCE at end of table.

Table C-152A. Federal obligations for applied research, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Fed Communications Comm	0.7	1.1	0.9	1.1	1.5	2.0	2.4	2.9	3.4	1.8	1.2
Fed Emergency Management Agency	NA	NA	NA	NA	NA	NA	1.9	6.7	6.7	6.4	7.8
Fed Energy Admin	NA	NA	-	.2	1.0	NA	NA	NA	NA	NA	NA
Fed Home Loan Bank Board 17/	.5	.5	.7	.7	.8	1.7	1.0	.9	1.2	1.0	2.7
Fed Trade Comm	.6	.7	.9	.9	.6	.8	.9	1.1	1.5	.2	.2
General Svcs Admin 18/	.1	.3	.9	.6	.3	.3	.4	.1	.1	.4	.5
Internat'l Trade Comm	-	-	-	-	1.5	2.6	3.1	3.4	2.1	3.4	3.8
Interstate Commerce Comm	-	-	-	-	.1	.1	.3	.2	.1	-	-
Library of Congress	1.2	1.4	.4	.4	.3	.3	.4	.5	.5	.7	.7
Nat'l Aeronautics & Space Admin	433.0	443.6	539.8	625.8	929.6	792.3	865.4	938.4	1,050.5	876.0	871.4
Nat'l Science Foundation	59.6	71.5	105.0	84.0	72.1	63.4	65.5	66.8	58.4	58.9	57.1
Nuclear Regulatory Comm	NA	NA	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7	220.3
Off of Economic Opportunity	51.1	31.4	-	-	NA	NA	NA	NA	NA	NA	NA
Off of Emergency Preparedness	.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Personnel Management	NA	NA	NA	NA	NA	NA	1.0	1.4	2.6	3.4	-
Off of Science and Tech	.6	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Telecomm Policy	1.2	.6	.3	2.1	1.5	-	-	NA	NA	NA	NA
Off of Thrift Supervision 17/	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Small Business Admin	-	-	-	.2	.1	.5	-	-	-	-	-
Spec Action Office for Drug Abuse Prevention	-	11.0	11.1	3.8	-	NA	NA	NA	NA	NA	NA
Tennessee Valley Authority	8.3	12.5	11.6	14.7	16.5	19.3	9.7	12.4	11.2	9.4	8.1
US Arms Control & Disarmament Agency	1.5	1.7	1.1	1.0	1.4	1.8	2.5	2.7	3.0	1.6	1.3
US Information Agency 19/	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.0	-

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

10/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

11/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

12/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

13/ Formerly listed as Federal Prison System

14/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ Name changed from Urban Mass Transit Administration on December 18, 1991

17/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

18/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

19/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-152B. Federal obligations for applied research, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1	9,176.5	10,163.5	10,445.5	11,797.6	12,941.4	13,715.0
Departments:											
Dept of Agriculture, total	455.5	442.2	465.6	463.5	473.4	504.6	517.3	542.1	617.9	658.0	629.7
Agricultural Coop Svc 1/	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.5	3.1
Agricultural Marketing Svc 2/	1.1	1.2	1.3	1.3	1.2	1.3	1.3	1.7	3.7	4.1	3.7
Agricultural Rsch Svc 3/	202.6	183.7	191.8	188.3	201.1	208.2	209.4	218.2	241.1	249.5	259.8
Animal & Plant Health Inspection Svc	NA	NA	NA	4.2	4.9	5.6	7.4	-	-	-	-
Coop State Rsch Svc 4/	133.5	136.2	142.8	137.4	138.0	152.6	164.7	170.5	206.4	224.6	191.6
Econ Rsch Svc	34.9	39.3	41.7	40.1	38.5	41.4	42.6	43.5	46.8	50.5	51.9
Fed Grain Inspection Svc	NA	NA	.8	.6	.7	.6	.8	.2	.7	1.0	1.1
Forest Svc	65.1	63.9	65.7	67.5	73.5	79.9	77.5	93.5	103.6	111.3	105.0
Human Nutrition Info Svc	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.8	10.8
Nat'l Agricultural Stat Svc	5.1	5.5	5.6	5.4	2.3	2.4	1.9	1.9	2.2	2.3	2.3
Off of Internat'l Coop & Dev	2.5	3.9	5.8	2.9	3.3	1.2	.6	.9	.7	.4	.3
Off of Transportation 2/	.3	.3	.5	.4	.4	.4	-	-	-	-	-
Dept of Commerce, total	265.6	276.1	301.0	312.9	312.8	311.5	321.9	345.6	415.4	495.7	494.3
Bureau of the Census	1.9	2.0	2.1	2.1	2.1	2.4	1.8	2.1	2.3	2.7	2.7
Econ Dev Admin	4.8	5.1	2.0	2.3	5.0	4.2	1.0	1.2	1.4	.5	-
Nat'l Inst of Standards & Tech	63.1	63.5	64.5	63.5	64.3	72.6	77.6	83.2	92.5	133.9	143.2
Nat'l Oceanic & Atmospheric Admin	188.9	197.7	224.4	237.5	234.4	225.0	234.6	252.4	315.6	354.6	342.1
Nat'l Telecomm & Info Admin	6.9	7.7	7.9	7.6	7.0	7.3	6.9	6.8	3.6	4.0	6.3
Off of the Secretary	-	.0	.1	-	.0	-	-	-	-	-	-
Dept of Defense, total	2,437.0	2,200.7	2,306.9	2,303.3	2,440.0	2,362.2	2,708.2	2,581.6	2,723.8	3,003.6	3,365.0
Department of the Army	485.3	486.7	582.6	578.8	692.9	588.0	636.3	595.2	671.9	689.6	591.2
Department of the Navy	521.6	449.6	448.2	447.1	432.5	406.0	429.2	442.6	486.0	501.0	619.0
Department of the Air Force	524.2	547.7	538.4	542.5	563.2	576.7	604.6	579.3	621.2	630.6	829.2
Defense agencies	905.9	716.6	737.7	735.0	751.3	791.5	1,038.1	964.6	944.7	1,182.3	1,126.1
Health Affairs, Assistant Secretary of Defense for	-	-	-	-	-	-	-	-	-	-	199.5
Dept of Education	61.9	68.7	77.3	91.3	103.8	106.6	117.5	125.3	123.1	143.3	140.0
Dept of Energy 5/ 6/	1,193.4	1,194.5	1,198.4	1,080.7	1,029.4	1,050.6	1,020.8	1,065.7	1,587.2	1,790.7	1,747.5
Dept of Hlth & Humn Svcs, total	1,545.4	1,651.5	1,795.8	1,850.8	2,194.0	2,415.6	2,700.4	2,818.1	3,112.4	3,388.5	3,460.2
Admin on Aging 7/	NA	NA	NA	NA	NA	NA	NA	NA	2.9	2.9	2.9
Admin for Children & Families 7/	NA	NA	NA	NA	NA	NA	NA	-	13.5	14.4	16.0
Agency for Hlth Care Policy & Rsch 8/	NA	NA	NA	NA	NA	NA	NA	44.2	93.0	97.8	67.9
Alcohol, Drug Abuse, & Mental Hlth Admin	155.4	165.2	179.7	191.5	241.1	286.6	384.7	415.0	463.9	492.6	522.6
Centers for Disease Control	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	117.4	118.3
Food & Drug Admin	74.2	77.8	82.1	79.4	85.0	91.0	99.0	99.0	125.0	137.7	143.3
Hlth Care Financing Admin	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	78.4	36.0
Hlth Resources & Svcs Admin	10.2	15.4	17.3	11.2	8.0	9.0	9.3	10.7	9.5	9.6	9.7
Humn Dev Svcs 7/	6.9	4.5	5.8	6.8	9.4	7.1	8.5	7.7	NA	NA	NA
Nat'l Inst of Hlth	1,165.2	1,285.6	1,410.1	1,469.0	1,739.1	1,885.6	2,008.5	2,074.1	2,193.5	2,394.0	2,515.5
Off of Asst Sec for Hlth 8/	-	-	-	-	-	-	-	5.8	9.6	7.9	2.8
Off of the Secretary	14.4	10.0	9.4	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2
Social Security Admin	10.8	13.5	10.4	5.6	9.8	14.7	15.8	11.8	10.2	30.7	19.9
Dept of Housing & Urban Dev	11.3	6.3	6.5	5.3	5.5	6.3	6.1	6.6	9.4	10.4	13.2

See explanatory information, if any, and SOURCE at end of table.

Table C-152B. Federal obligations for applied research, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Dept of the Interior, total	254.7	254.3	231.0	234.9	247.3	266.0	253.0	269.8	324.1	334.5	311.4
Bureau of Land Management	2.0	1.8	2.8	2.1	2.1	2.2	2.0	2.1	4.8	4.7	8.9
Bureau of Mines	55.9	56.7	36.7	36.6	39.6	54.1	49.3	49.3	56.2	58.4	43.6
Bureau of Reclamation	8.7	8.8	10.9	9.6	10.1	3.6	3.5	5.2	7.7	10.7	8.3
Geological Survey 9/	89.9	125.1	130.0	127.8	131.7	135.8	126.8	134.2	159.3	164.6	154.0
Minerals Management Svc	1.5	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.7	3.7	3.7
Nat'l Park Svc	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	29.0	29.5
Off of the Secretary	-	-	-	-	-	.1	-	-	.1	.2	2.0
Off of Surface Mining Reclamation & Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	.3	.4
Off of Water Rsch & Tech 9/	.8	3.2	-	-	-	-	-	-	-	-	-
US Fish & Wildlife Svc	80.6	42.3	32.2	38.1	43.3	48.7	49.1	56.4	64.8	62.9	61.1
Dept of Justice, total	17.1	13.2	15.1	17.0	11.8	9.8	10.7	11.1	14.7	16.4	12.7
Bureau of Prisons 10/	1.3	1.2	1.1	2.7	2.2	2.1	2.1	1.8	1.9	2.0	2.0
Drug Enforcement Admin	.9	.7	.5	.8	.7	.6	.5	.4	.9	.3	.3
Immigratn & Naturalizatn Svc	.3	.3	.2	.2	.2	.3	.1	.4	.4	.4	.4
Off of Justice Programs	14.4	11.0	13.0	13.2	8.6	6.8	8.0	8.5	11.5	13.7	10.0
Off of Legal Policy	.2	-	.3	.2	.1	-	-	-	-	-	-
Dept of Labor, total	12.7	11.2	9.1	8.7	19.0	26.4	21.8	21.3	24.0	24.9	27.4
Bureau of Labor Stat	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	8.4
Employment Standards Admin	1.4	.9	.0	-	1.0	.1	.1	.1	-	-	-
Employment & Training Admin	2.6	1.0	.3	2.6	4.0	6.5	5.7	5.7	6.3	6.5	3.8
Labor-Management Relations and Coop Programs 11/	NA	.3	.3	.2	.3	.4	.3	-	-	-	-
Labor-Management Svcs Admin 11/	.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Hlth Admin	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.2	3.2
Off of the Secretary	1.5	1.9	1.7	1.3	1.8	5.2	2.5	3.3	4.7	4.7	9.1
Pension Benefit Guaranty Corporation	.3	.3	.2	.1	.3	.3	.3	.3	.4	.4	.5
Pension & Welfare Benefit Admin	NA	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.5	2.4
Dept of State, total	1.5	1.6	1.5	1.5	.3	1.0	1.3	1.2	1.3	.4	.4
Dept of Transportation, total	71.7	74.2	70.2	67.6	68.6	91.2	120.5	119.2	114.6	161.6	210.2
Coast Guard	.8	7.2	5.4	3.5	3.7	5.4	4.6	5.1	6.4	7.2	7.4
Fed Aviation Admin	12.5	15.0	17.3	14.0	11.1	13.3	23.6	26.1	24.0	33.8	64.5
Fed Highway Admin	7.3	6.1	6.3	14.7	20.7	43.7	56.6	57.6	46.1	66.7	77.3
Fed Railroad Admin	2.8	12.3	11.4	12.5	10.4	8.2	7.5	8.5	13.2	24.2	21.2
Maritime Admin 12/	5.7	5.1	7.0	6.2	3.1	.5	-	.9	1.7	1.8	1.7
Nat'l Highway Traffic Safety Admin	21.4	24.7	20.9	16.1	18.9	19.1	26.2	16.9	21.4	25.8	35.8
Off of the Secretary	.3	.9	.9	.4	.4	.7	1.3	1.7	.6	.7	.8
Rsch & Special Programs Admin	2.6	1.8	.5	.3	.2	.4	.7	2.4	1.4	1.4	1.5
Fed Transit Admin 13/	18.3	1.0	.5	-	-	-	-	-	-	-	-
Dept of the Treasury, total	6.7	6.6	13.6	12.7	12.7	11.1	13.0	15.3	20.6	21.3	19.7
Bureau of Engraving & Printing	1.4	1.4	3.1	2.7	2.7	1.1	.9	1.4	2.7	3.6	1.3
Internal Revenue Svc	5.0	4.9	10.2	9.5	9.7	9.0	11.3	13.1	13.9	13.9	13.9
Off of Protective Rsch	.3	.1	.2	.2	.1	.3	.4	.5	.4	.5	.6
Off of Thrift Supervision 14/	NA	NA	NA	NA	NA	NA	NA	-	3.0	3.0	3.2
US Customs Svc	-	.1	.1	.2	.2	.7	.4	.4	.5	.3	.7
Dept of Veterans Affairs	132.0	156.1	193.7	155.1	173.1	178.8	197.1	199.4	177.7	197.3	205.9

See explanatory information, if any, and SOURCE at end of table.

Table C-152B. Federal obligations for applied research, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Other agencies:											
Advisory Commission on Intergovernmental Relations	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.5	1.5
Agency for Internat'l Dev 15/	152.6	164.0	158.1	180.7	151.2	132.1	216.0	300.2	351.7	329.7	342.5
Appalachian Regional Comm	.2	.4	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Comm	.3	1.1	1.4	1.1	.6	.1	.5	.4	.9	.8	1.1
Environmental Protection Agency	152.4	142.3	176.0	179.3	246.1	240.7	222.6	241.6	261.9	312.3	319.3
Fed Communications Comm	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Fed Emergency Management Agency	3.3	6.1	2.9	NA	NA	NA	NA	NA	NA	NA	NA
Fed Home Loan Bank Board 14/	3.0	2.6	2.8	3.3	3.4	3.4	NA	NA	NA	NA	NA
Fed Trade Comm	.2	.2	.3	.3	.5	.4	.4	.5	1.0	.5	.5
General Svcs Admin 16/	.2	.4	.3	.9	1.6	2.3	.5	.7	-	-	-
Internat'l Trade Comm	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	11.7	12.5
Library of Congress	1.0	1.5	1.5	1.1	1.1	1.2	1.2	1.2	1.3	1.6	1.6
Nat'l Aeronautics & Space Admin	927.8	954.7	1,032.7	1,152.3	1,255.5	1,218.9	1,461.4	1,423.8	1,665.6	1,761.4	2,103.1
Nat'l Archives and Records Admin 16/	NA	NA	.1	-	.3	.3	.1	.1	.3	.1	.2
Nat'l Science Foundation	62.9	70.5	83.8	78.1	99.3	99.6	107.8	103.3	109.0	127.8	153.4
Nuclear Regulatory Comm	207.3	190.7	150.0	123.8	122.5	108.5	114.8	217.5	108.8	118.9	127.7
Off of Thrift Supervision 14/	NA	NA	NA	NA	NA	NA	4.1	4.1	-	-	-
Tennessee Valley Authority	6.7	9.2	8.9	10.5	13.8	15.3	11.7	17.0	16.9	21.9	9.9
US Arms Control & Disarmament Agency	.8	1.2	1.1	.9	.4	.8	1.2	.2	.4	2.1	1.0
US Information Agency 17/	.0	1.4	.1	1.6	-	.1	-	.5	.1	1.0	.6

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

7/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

8/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

9/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

10/ Formerly listed as Federal Prison System

11/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

12/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

13/ Name changed from Urban Mass Transit Administration on December 18, 1991

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

15/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

16/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

17/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-153A. Federal obligations for development, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all agencies	10,948.2	11,218.7	11,234.9	12,309.1	13,160.3	14,936.3	16,238.4	17,610.1	18,233.1	20,891.1	23,410.4
Departments:											
Dept of Agriculture, total	12.4	12.4	13.6	18.1	20.2	22.9	26.8	31.1	30.2	33.0	30.8
Agricultural Marketing Svc 1/	NA	NA	NA	NA	NA	NA	NA	.5	.3	.2	.2
Agricultural Rsch Svc 2/	9.9	9.8	10.2	13.0	14.5	18.0	21.8	24.9	23.3	26.2	25.8
Econ, Stat & Coop Svc 3/	NA	NA	NA	NA	NA	.8	-	-	NA	NA	NA
Forest Svc	2.2	2.3	3.2	4.9	5.4	4.2	5.0	5.0	5.5	6.2	4.5
Nat'l Agricultural Stat Svc	.3	.3	.2	.2	.3	NA	NA	NA	NA	-	-
Off of Internat'l Coop & Dev	NA	NA	NA	NA	NA	NA	NA	-	.4	.3	.2
Off of Transportation 1/	NA	NA	NA	NA	NA	NA	NA	.7	.8	.1	.1
Dept of Commerce, total	43.9	60.4	51.4	71.0	73.1	68.6	90.9	89.9	88.1	78.6	60.2
Bureau of the Census	2.1	.5	.4	.4	.4	.6	1.1	1.2	1.2	.9	1.9
Econ Dev Admin	5.7	5.4	3.2	9.2	13.0	12.5	32.6	34.6	29.8	26.3	8.0
Maritime Admin 4/	1.5	17.8	17.3	17.1	14.0	11.1	12.6	7.4	7.3	NA	NA
Minority Business Dev Agency	.5	2.1	.8	3.7	1.6	2.7	-	-	-	-	-
Nat'l Fire Prevention & Control Admin	-	-	-	2.9	3.2	2.1	NA	NA	NA	NA	NA
Nat'l Inst of Standards & Tech	4.9	5.8	7.6	8.4	9.9	8.3	9.8	16.0	17.3	16.3	14.9
Nat'l Oceanic & Atmospheric Admin	24.9	26.5	22.0	28.3	30.2	29.9	33.5	28.5	30.9	32.9	33.5
Nat'l Telecomm & Info Admin	NA	NA	NA	NA	NA	.9	.7	1.7	1.1	1.1	1.2
Off of Telecommunications	3.6	1.2	-	.7	.5	NA	NA	NA	NA	NA	NA
Off of the Secretary	-	-	-	-	-	-	-	-	.0	-	-
Patent and Trademark Office	.6	.6	.2	.3	.2	.5	.5	.5	.5	1.1	.7
US Travel & Tourism Admin	-	.4	-	-	-	-	-	-	-	-	-
Dept of Defense, total	6,813.6	6,968.1	6,986.0	7,581.5	8,127.2	9,247.5	9,729.6	10,492.1	11,719.2	13,907.7	17,669.8
Department of the Army	1,692.6	1,636.5	1,643.4	1,560.4	1,651.3	2,043.9	2,139.1	2,320.1	2,500.7	2,707.7	3,121.3
Department of the Navy	2,113.0	2,268.4	2,317.2	2,693.7	2,890.1	3,320.0	3,472.1	3,767.7	4,095.0	4,308.0	5,066.4
Department of the Air Force	2,912.0	2,932.6	2,874.6	3,157.7	3,344.3	3,605.3	3,813.6	4,033.4	4,673.7	6,351.9	8,724.0
Defense agencies	96.0	105.6	126.6	145.9	217.5	248.0	276.2	341.7	411.9	499.1	717.1
Test & Evaluation, Deputy Under Secretary Defense	-	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1	41.0
Dept of Education	NA	NA	NA	NA	NA	NA	NA	72.9	51.8	51.1	57.5
Dept of Energy 5/ 6/	NA	NA	NA	NA	NA	2,645.0	3,142.6	3,506.9	3,476.4	3,504.6	3,012.1
Dept of Hlth, Education, & Welfare, total	319.1	393.4	443.4	472.6	432.8	409.0	466.5	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	-	-	-	2.8	1.0	1.4	NA	NA	NA	NA
Centers for Disease Control	NA	.2	-	-	-	-	-	NA	NA	NA	NA
Hlth Resources Admin	-	41.6	46.1	26.6	7.2	-	.5	NA	NA	NA	NA
Hlth Svcs Admin	NA	3.0	3.1	6.7	8.0	8.1	7.6	NA	NA	NA	NA
Hlth Svcs & Mental Hlth Admin	44.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nat'l Inst of Education	-	90.7	66.2	65.8	52.9	37.8	54.9	NA	NA	NA	NA
Nat'l Inst of Hlth	172.0	182.1	247.1	275.7	292.6	311.2	348.3	NA	NA	NA	NA
Off of Asst Sec for Hlth	-	-	-	-	-	3.6	3.6	NA	NA	NA	NA
Off of Child Dev	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Education	94.0	51.6	45.1	40.6	36.8	19.2	19.6	NA	NA	NA	NA
Off of Humn Dev Svcs	-	18.7	35.8	57.3	27.3	28.1	30.7	NA	NA	NA	NA
Social & Rehabilitation Svc	3.8	5.3	-	-	-	NA	NA	NA	NA	NA	NA
Social Security Admin	-	-	-	-	5.3	-	-	NA	NA	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-153A. Federal obligations for development, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of Hlth & Humn Svcs, total	NA	NA	NA	NA	NA	NA	NA	489.2	447.4	434.9	335.2
Alcohol, Drug Abuse, & Mental Hlth Admin	NA	NA	NA	NA	NA	NA	NA	.7	-	1.8	2.1
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4
Hlth Svcs Admin	NA	NA	NA	NA	NA	NA	NA	18.5	18.7	10.1	NA
Humn Dev Svcs 7/	NA	NA	NA	NA	NA	NA	NA	42.2	30.1	33.8	18.5
Nat'l Inst of Hlth	NA	NA	NA	NA	NA	NA	NA	423.0	394.4	384.9	308.7
Off of Asst Sec for Hlth 8/	NA	NA	NA	NA	NA	NA	NA	4.7	4.2	4.3	2.2
Off of the Secretary	NA	NA	NA	NA	NA	NA	NA	-	-	-	.3
Dept of Housing & Urban Dev	36.4	39.5	31.0	28.5	30.6	19.4	39.2	44.1	36.4	31.4	18.5
Dept of the Interior, total	71.4	83.6	48.9	69.3	73.7	58.7	75.5	66.3	56.8	57.3	29.6
Bonneville Power Admin 5/	2.2	2.5	2.0	5.5	6.5	NA	NA	NA	NA	7.7	NA
Bureau of Land Management	.0	.0	.0	.0	.1	.1	.2	.2	.3	.4	2.9
Bureau of Mines	30.2	36.1	35.6	54.7	58.0	49.6	57.0	41.9	30.6	28.7	13.6
Bureau of Reclamation	.2	.3	.5	.5	.4	.6	.6	.8	1.2	.9	1.1
Geological Survey 9/	-	3.7	-	-	-	-	-	.5	.5	.5	.5
Nat'l Park Svc	-	-	-	-	-	.3	-	-	-	-	-
Off of Coal Rsch	16.0	20.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of the Secretary	1.1	17.2	.1	.4	-	-	-	-	-	-	-
Off of Water Rsch & Tech 9/	19.2	-	7.4	4.0	5.1	2.8	12.0	9.4	10.9	5.3	1.3
Off of Saline Water	19.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
US Fish & Wildlife Svc	2.4	3.0	3.3	4.1	3.7	5.4	5.7	13.5	13.4	13.7	10.3
Dept of Justice, total	11.0	26.2	16.1	25.4	15.5	10.1	15.2	14.1	12.7	7.0	10.4
Bureau of Prisons 10/	.5	.5	.5	.6	.8	1.0	2.9	2.9	1.3	.9	.7
Drug Enforcement Admin	-	-	3.3	.6	2.0	2.1	1.4	1.7	1.9	.9	1.9
Fed Bureau of Investigation	.7	.7	1.9	1.2	1.2	1.4	1.8	3.1	1.4	.7	2.7
Immigratn & Naturalizatn Svc	-	-	-	.0	-	.1	.2	.1	.2	.1	.4
Off of Justice Programs	9.8	24.9	10.4	23.0	11.5	5.4	8.3	6.3	7.5	4.4	4.6
Off of Legal Policy	-	-	-	-	-	-	.6	.0	.5	.1	.0
Dept of Labor, total	9.9	6.6	6.6	10.1	10.5	10.8	72.1	94.9	101.6	4.0	8.3
Bureau of Labor Stat	2.3	.2	1.0	1.1	.5	.5	.5	-	-	-	-
Employment & Training Admin	7.4	5.9	4.5	8.3	10.0	10.4	71.7	94.9	101.6	3.6	7.4
Occupational Safety & Hlth Admin	.2	.5	.9	.7	-	-	-	-	-	-	-
Off of the Secretary	.0	.0	.2	-	-	-	-	-	-	-	-
Pension Benefit Guaranty Corporation	NA	NA	NA	NA	NA	NA	NA	NA	NA	.4	.8
Dept of State, total	.9	1.6	4.7	5.4	14.2	23.1	36.1	.5	.3	.2	-
Agency for Internat'l Dev 11/	.9	.9	4.3	4.9	13.8	22.9	35.7	NA	NA	NA	NA
Departmental funds	-	.7	.4	.5	.5	.2	.4	.5	.3	.2	NA
Dept of Transportation, total	212.3	233.4	308.0	257.7	263.4	302.8	341.8	303.1	278.8	327.0	243.4
Coast Guard	25.3	22.4	14.8	11.6	9.8	16.4	21.4	10.2	9.9	11.3	18.3
Fed Aviation Admin	78.7	61.6	111.1	91.5	94.5	98.7	103.7	103.0	94.9	111.8	87.3
Fed Highway Admin	.4	21.7	37.6	41.3	27.0	50.2	46.8	48.5	46.5	46.1	35.0
Fed Railroad Admin	17.0	20.2	31.9	29.7	41.8	35.3	44.7	36.7	38.3	30.4	15.1
Maritime Admin 4/	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.7	4.5
Nat'l Highway Traffic Safety Admin	29.3	32.9	38.7	22.0	21.5	19.5	28.3	26.6	24.9	36.5	34.1
Off of the Secretary	10.7	14.6	14.6	16.9	21.9	23.8	27.6	11.1	10.2	9.4	3.0
Rsch & Special Programs Admin	NA	NA	NA	NA	NA	-	.8	10.0	8.5	7.9	4.0
Fed Transit Admin 12/	51.0	60.0	59.3	44.8	46.9	58.9	68.5	56.9	45.5	68.9	42.0

See explanatory information, if any, and SOURCE at end of table.

Table C-153A. Federal obligations for development, by selected agency: fiscal years 1972-82

[Dollars in millions]

Agency and subdivision	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dept of the Treasury, total	0.8	0.6	0.7	1.3	2.3	2.7	5.8	4.8	6.3	6.1	5.2
Bureau of Alcohol, Tobacco, & Firearms	-	-	-	-	-	.7	1.6	1.9	1.2	.2	-
Bureau of Engraving & Printing	.8	.6	.7	1.3	1.3	.8	1.8	1.5	1.0	1.8	2.0
Internal Revenue Svc	-	-	-	-	-	-	.6	.1	.1	.0	.1
Off of Protective Rsch	NA	NA	NA	NA	NA	NA	NA	NA	.4	.6	-
US Customs Svc	-	-	-	-	1.0	1.2	1.8	1.3	3.7	3.4	3.1
Dept of Veterans Affairs	2.0	4.5	6.1	7.7	12.6	14.7	14.6	15.6	15.5	16.7	14.3
Other agencies:											
Action	-	-	.1	-	-	.4	1.4	1.6	-	-	-
Agency for Internat'l Dev 11/	NA	NA	NA	NA	NA	NA	NA	39.6	69.7	47.8	72.0
Appalachian Regional Comm	-	-	-	-	-	.1	.1	.2	.2	.1	.1
Atomic Energy Comm	880.5	938.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Civil Svc Comm	.6	1.9	1.8	2.9	2.9	2.8	NA	NA	NA	NA	NA
Community Svcs Admin	NA	NA	21.3	22.9	10.2	23.0	22.3	18.9	29.1	16.4	NA
Consumer Product Safety Comm	-	.1	1.6	3.0	2.1	3.0	2.9	2.1	1.9	.3	.1
Energy Rsch & Dev Admin 6/	NA	NA	1,024.2	1,453.9	1,717.3	NA	NA	NA	NA	NA	NA
Environmental Protection Agency	71.3	106.3	72.9	115.9	103.7	90.2	132.0	151.1	99.9	107.4	91.7
Fed Emergency Management Agency	NA	NA	NA	NA	NA	NA	2.2	2.9	2.5	2.5	-
Fed Energy Admin	NA	NA	-	1.1	1.9	NA	NA	NA	NA	NA	NA
General Svcs Admin 13/	.1	.2	.4	.9	.7	.5	.5	.3	.1	.2	.5
Library of Congress	1.2	1.2	1.8	2.2	2.5	3.4	4.4	5.3	6.3	4.0	4.9
Nat'l Aeronautics & Space Admin	2,392.6	2,267.0	2,156.5	2,129.3	2,224.0	1,964.7	1,988.1	2,127.2	1,624.4	2,186.0	1,670.7
Nat'l Science Foundation	27.6	15.9	36.2	25.0	13.5	8.7	5.3	7.9	8.1	6.1	2.2
Off of Economic Opportunity	37.4	55.5	-	-	NA	NA	NA	NA	NA	NA	NA
Off of Personnel Management	NA	NA	NA	NA	NA	NA	3.5	4.6	4.2	5.0	-
Off of Science and Tech	1.0	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Off of Telecomm Policy	-	-	-	1.7	2.7	-	-	NA	NA	NA	NA
Tennessee Valley Authority	1.8	1.8	1.6	1.9	2.2	3.6	18.0	21.9	64.3	54.7	72.3
US Arms Control & Disarmament Agency	.4	.2	.0	.0	.0	.4	1.2	.8	.8	.8	.6
US Information Agency 14/	.0	.0	.0	-	.0	.0	.0	.0	.0	.3	.1

1/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

2/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

3/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

4/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

7/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

8/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

9/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

10/ Formerly listed as Federal Prison System

11/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

12/ Name changed from Urban Mass Transit Administration on December 18, 1991

13/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

14/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-153B. Federal obligations for development, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all agencies	24,458.0	27,246.1	32,226.1	34,910.2	37,313.2	38,119.3	40,641.0	41,937.1	37,326.8	44,172.4	41,855.1
Departments:											
Dept of Agriculture, total	30.0	31.3	32.0	32.1	29.0	31.4	36.1	47.1	61.2	64.0	65.3
Agricultural Marketing Svc 1/	.3	.3	.3	.3	.3	.3	.3	.4	.5	.6	.6
Agricultural Rsch Svc 2/	25.5	27.0	27.7	27.4	24.0	26.3	31.4	33.3	40.2	41.5	43.2
Animal & Plant Health Inspection Svc	NA	NA	NA	-	-	-	-	8.0	15.7	16.7	16.7
Fed Grain Inspection Svc	NA	NA	.2	.3	.5	.4	.3	.4	.1	.1	.1
Forest Svc	3.8	3.3	3.3	3.6	3.8	4.0	3.9	4.8	4.5	5.1	4.8
Off of Internat'l Coop & Dev	.4	.7	.4	.3	.3	.2	.1	.2	.2	-	-
Off of Transportation 1/	.1	.1	.2	.1	.1	.1	-	-	-	-	-
Dept of Commerce, total	50.2	61.5	74.6	59.7	63.7	46.6	46.9	61.2	39.9	90.1	88.8
Bureau of the Census	2.1	2.1	2.4	2.1	1.9	1.9	2.0	2.0	1.9	2.1	2.1
Econ Dev Admin	-	-	11.0	8.0	-	-	-	-	-	-	-
Nat'l Inst of Standards & Tech	13.6	11.8	14.0	11.6	9.3	9.1	10.0	10.5	15.6	53.4	49.4
Nat'l Oceanic & Atmospheric Admin	33.1	46.6	45.4	37.2	51.7	34.8	34.1	47.7	22.4	34.7	37.3
Nat'l Telecomm & Info Admin	1.4	.9	1.2	.8	.8	.8	.9	.9	-	-	-
Off of the Secretary	.0	.1	.6	-	-	-	-	-	-	-	-
Dept of Defense, total	19,770.1	22,324.3	26,623.2	29,710.7	31,884.0	32,009.7	33,920.8	33,738.9	28,416.9	34,211.3	31,628.3
Department of the Army	3,304.5	3,516.8	3,747.4	3,982.1	4,109.6	4,052.3	4,835.9	4,903.8	5,221.0	5,750.5	4,971.9
Department of the Navy	5,241.2	6,840.2	8,336.1	8,865.9	8,721.1	8,766.2	8,882.9	8,778.6	6,932.0	8,304.0	7,664.0
Department of the Air Force	10,124.2	11,351.5	12,524.3	12,834.8	14,562.9	14,094.2	14,430.0	14,055.1	10,107.1	12,784.1	11,637.8
Defense agencies	1,036.7	557.3	1,964.8	3,910.7	4,353.5	4,868.4	5,616.8	5,760.2	5,919.4	7,163.9	6,998.0
Test & Evaluation, Deputy Under Secretary Defense	61.6	58.6	50.6	117.1	128.5	160.3	140.7	188.7	223.7	196.0	287.3
Director, Operational Test and Evaluation	NA	NA	NA	-	8.4	68.2	14.4	32.6	13.6	12.8	13.0
Health Affairs, Assistant Secretary of Defense for	-	-	-	-	-	-	-	-	-	-	58.4
Dept of Education	35.6	34.8	33.0	25.5	25.6	29.7	37.2	39.7	39.4	50.1	63.9
Dept of Energy 3/ 4/	2,575.6	2,648.7	2,825.0	2,648.0	2,659.4	2,801.0	2,760.9	3,060.1	2,709.5	3,166.4	3,110.5
Dept of Hlth & Humn Svcs, total	331.7	364.7	422.7	468.0	584.3	661.1	814.4	938.5	1,593.5	1,777.6	1,833.9
Admin on Aging 5/	NA	NA	NA	NA	NA	NA	NA	NA	17.7	17.7	16.7
Admin for Children & Families 5/	NA	NA	NA	NA	NA	NA	NA	-	115.5	140.9	126.2
Agency for Hlth Care Policy & Rsch 6/	NA	NA	NA	NA	NA	NA	NA	5.5	8.1	8.5	5.9
Alcohol, Drug Abuse, & Mental Hlth Admin	1.8	1.2	1.1	1.2	2.2	2.4	3.0	41.5	537.6	600.1	636.6
Hlth Resources & Svcs Admin	2.3	2.3	1.5	-	-	-	-	-	-	-	-
Humn Dev Svcs 5/	16.6	13.8	18.5	47.8	43.6	46.8	93.2	87.7	NA	NA	NA
Nat'l Inst of Hlth	311.0	347.0	399.6	417.5	536.2	610.2	716.5	800.7	912.5	1,009.3	1,044.6
Off of Asst Sec for Hlth 6/	-	-	1.7	1.5	2.3	1.6	1.7	1.1	.4	1.0	1.6
Off of the Secretary	-	.4	.2	-	-	-	-	-	-	-	-
Social Security Admin	-	-	-	-	-	-	-	2.1	1.7	-	.3
Dept of Housing & Urban Dev	20.8	11.9	12.0	10.1	10.8	12.1	11.9	12.7	18.4	18.1	23.4

See explanatory information, if any, and SOURCE at end of table.

Table C-153B. Federal obligations for development, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Dept of the Interior, total	24.8	30.7	22.4	17.3	21.7	24.3	27.1	33.3	39.5	46.1	35.2
Bureau of Land Management	1.9	2.0	1.6	1.3	1.6	1.5	1.0	.7	2.8	3.0	5.2
Bureau of Mines	9.2	11.6	3.3	2.8	3.6	5.2	5.4	9.4	7.1	8.5	4.3
Bureau of Reclamation	1.2	1.4	2.0	.5	.5	.7	.6	.5	.9	2.5	1.0
Geological Survey 7/	2.3	4.9	4.4	7.4	10.3	10.9	12.9	15.1	18.2	17.8	11.6
Off of the Secretary	-	-	-	-	-	.3	.4	.2	.5	.7	.8
Off of Water Rsch & Tech 7/	1.0	-	-	-	-	-	-	-	-	-	-
US Fish & Wildlife Svc	9.2	10.8	11.1	5.3	5.7	5.7	6.7	7.4	10.0	13.6	12.3
Dept of Justice, total	10.7	6.6	16.7	14.1	22.5	25.7	20.6	20.6	27.8	28.8	39.8
Bureau of Prisons 8/	.4	.4	.4	.3	4.9	3.9	3.0	2.7	3.3	3.3	3.6
Drug Enforcement Admin	1.6	1.2	1.1	1.7	1.5	1.9	2.2	2.0	1.8	1.5	1.5
Fed Bureau of Investigation	2.5	1.0	9.5	7.2	8.0	12.7	7.7	8.2	10.8	11.4	24.3
Immigratn & Naturalizatn Svc	.3	.3	.2	.2	.2	-	-	-	-	-	-
Off of Justice Programs	5.8	3.8	5.5	4.7	7.9	7.1	7.8	7.7	11.9	12.6	10.4
Off of Legal Policy	.1	-	-	-	-	-	-	-	-	-	-
Dept of Labor, total	1.9	-	.9	.9	1.2	8.9	13.3	51.4	19.7	13.8	16.5
Employment & Training Admin	1.1	-	-	-	.3	8.0	9.7	47.4	15.5	9.8	12.8
Off of the Secretary	-	-	.9	.9	.9	.9	3.6	3.8	4.0	3.9	3.7
Pension Benefit Guaranty Corporation	.8	-	-	-	-	-	-	.2	.2	.1	-
Dept of Transportation, total	275.1	370.6	357.6	317.3	256.2	213.4	182.9	247.4	265.3	303.2	283.0
Coast Guard	18.4	12.2	13.6	13.4	13.3	15.7	13.3	15.2	19.2	21.6	22.1
Fed Aviation Admin	113.7	251.2	269.0	246.6	156.2	147.3	123.2	189.9	196.2	218.5	189.1
Fed Highway Admin	43.1	40.3	42.6	30.8	56.0	30.4	34.4	33.8	40.8	51.2	57.3
Fed Railroad Admin	13.7	6.9	3.6	2.9	.8	1.8	1.5	1.7	2.7	5.0	4.3
Maritime Admin 9/	8.8	1.3	5.9	2.6	2.5	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	30.6	32.2	7.2	6.3	9.0	9.2	3.5	-	-	-	-
Off of the Secretary	4.6	4.0	3.9	4.7	4.1	5.0	4.2	5.1	3.7	4.3	3.9
Rsch & Special Programs Admin	3.6	3.5	2.2	1.7	1.8	1.7	1.3	-	1.0	1.1	1.1
Fed Transit Admin 10/	38.6	19.1	9.7	8.2	12.6	2.3	1.4	1.6	1.7	1.5	5.1
Dept of the Treasury, total	5.4	3.3	6.0	6.3	9.5	10.2	9.3	6.9	6.7	6.4	11.3
Bureau of Engraving & Printing	1.9	1.3	1.6	1.1	1.7	.8	.3	.7	.8	.7	-
Financial Crimes Enforcement Network	-	-	-	-	-	-	-	-	2.3	2.0	2.1
Internal Revenue Svc	.1	.2	1.3	.2	.4	.7	.3	.3	.4	.4	.4
Off of Protective Rsch	.0	.1	.5	.0	.3	-	.2	-	-	-	-
US Customs Svc	3.3	1.7	2.1	4.6	6.8	8.5	6.4	5.8	3.2	2.8	8.3
US Mint	-	-	.6	.3	.2	.1	2.0	.1	.1	.6	.6
Dept of Veterans Affairs	15.3	18.4	17.5	16.3	19.2	19.2	21.0	22.1	22.8	23.0	23.0

See explanatory information, if any, and SOURCE at end of table.

Table C-153B. Federal obligations for development, by selected agency: fiscal years 1983-93

[Dollars in millions]

Agency and subdivision	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Other agencies:											
Agency for Internat'l Dev 11/	70.6	70.3	60.5	66.2	63.5	69.3	60.0	29.3	20.4	26.6	27.2
Appalachian Regional Comm	-	.1	-	-	-	-	-	-	-	-	-
Consumer Product Safety Comm	.2	.2	1.0	.9	1.6	.9	.8	.7	.4	.4	.4
Environmental Protection Agency	66.1	89.2	105.8	99.5	71.0	79.5	107.0	104.5	79.5	76.3	84.5
Fed Emergency Management Agency	-	5.4	1.2	NA	NA	NA	NA	NA	NA	NA	NA
General Svcs Admin 12/	.3	2.0	-	.3	-	-	-	-	-	-	-
Library of Congress	6.0	5.4	5.0	5.0	5.0	5.5	6.4	7.0	7.3	8.6	8.5
Nat'l Aeronautics & Space Admin	1,116.8	1,112.7	1,543.6	1,350.8	1,517.8	1,998.8	2,514.7	3,472.6	3,909.1	4,196.2	4,465.5
Nat'l Archives and Records Admin 12/	NA	NA	.3	1.0	.4	.2	.1	.1	.1	.1	.1
Tennessee Valley Authority	50.7	53.8	65.1	59.8	60.2	68.8	48.0	43.2	49.5	65.4	46.2
US Arms Control & Disarmament Agency	.1	.2	-	.1	3.2	2.6	1.6	-	-	-	-
US Information Agency 13/	-	-	-	.4	3.5	.3	.1	-	-	-	-

1/ Fiscal year 1979 was the first year in which Congress appropriated funds to the Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

2/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

3/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

4/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

5/ In fiscal year 1991 Human Development Services was replaced by the Administration for Children and Families and by the Administration on Aging.

6/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

7/ As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.

8/ Formerly listed as Federal Prison System

9/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

10/ Name changed from Urban Mass Transit Administration on December 18, 1991

11/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

12/ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

13/ Data reported for the US Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)
- = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-154A. Federal obligations for research and development, by performer: fiscal years 1972-82

[Dollars in millions]

Performer	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	16,495.9	16,800.2	17,410.1	19,038.8	20,779.7	23,450.4	25,845.1	28,145.1	29,830.4	33,103.9	36,432.6
Intramural 1/	4,589.2	4,762.2	4,910.9	5,354.0	5,768.7	6,011.7	6,810.4	7,417.5	7,632.3	8,425.7	9,141.0
Industrial firms excl FFRDCs	7,716.0	7,731.3	7,752.3	8,423.2	9,340.3	10,717.2	11,400.0	12,172.4	12,969.1	14,867.9	17,192.2
FFRDCs admin by industrial firms	529.9	582.4	592.8	703.7	813.8	1,112.7	1,242.5	1,318.1	1,408.1	1,413.9	1,506.4
Univs & colleges excl FFRDCs	1,903.5	1,916.6	2,214.0	2,411.4	2,551.8	2,905.5	3,374.6	3,888.8	4,263.4	4,465.8	4,605.5
FFRDCs admin by univs	760.6	725.3	789.1	935.1	1,061.1	1,313.1	1,311.9	1,488.3	1,533.3	1,791.0	1,976.7
Nonprofit inst excl FFRDCs	514.9	578.2	672.2	702.3	708.6	800.0	998.2	1,026.5	1,105.6	1,068.8	1,091.7
FFRDCs admin by nonprofit inst	215.4	183.1	199.3	219.9	231.0	263.9	315.9	368.7	441.8	525.2	520.6
State and local governments	206.7	256.8	214.4	227.6	231.2	238.0	268.4	310.1	265.5	222.2	184.3
Foreign	59.6	64.4	65.1	61.6	73.1	88.2	123.2	154.7	211.2	323.4	214.3

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-154B. Federal obligations for research and development, by performer: fiscal years 1983-93

[Dollars in millions]

Performer	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total	38,711.5	42,224.9	48,359.6	51,412.4	55,253.7	56,769.4	61,406.5	63,668.2	61,295.2	70,367.8	69,754.4
Intramural 1/	10,581.9	11,572.3	12,945.4	13,534.9	13,413.1	14,114.6	15,120.9	16,002.5	15,238.1	16,634.6	16,643.1
Industrial firms excl FFRDCs	17,019.7	18,610.4	21,704.9	24,201.2	26,768.2	26,719.2	28,547.9	29,378.2	26,420.6	32,155.6	31,202.7
FFRDCs admin by industrial firms	1,501.2	1,608.4	1,790.8	1,697.0	1,860.0	1,911.3	1,960.0	2,237.6	2,068.3	2,177.5	2,142.3
Univs & colleges excl FFRDCs	4,966.4	5,546.9	6,339.7	6,558.8	7,337.3	7,827.7	8,672.0	9,142.2	10,168.5	11,297.7	11,763.5
FFRDCs admin by univs 2/	2,393.9	2,485.8	2,816.4	2,767.7	3,209.6	3,473.9	3,497.1	3,466.4	3,603.8	3,831.4	3,702.8
Nonprofit inst excl FFRDCs	1,241.6	1,497.3	1,699.2	1,677.0	1,711.4	1,683.2	1,999.9	2,250.5	2,637.4	2,944.2	2,956.7
FFRDCs admin by nonprofit inst 2/	581.3	597.1	689.2	551.2	510.6	505.6	522.0	632.3	679.4	712.9	721.0
State and local governments	186.0	130.9	129.4	128.4	148.2	142.1	167.4	213.9	215.1	274.9	286.4
Foreign	239.5	175.8	244.5	296.3	295.3	391.8	919.4	344.7	263.9	339.1	336.0

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-155A. Federal obligations for research, by performer: fiscal years 1972-82

[Dollars in millions]

Performer	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	5,547.7	5,581.4	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	13,022.2
Intramural 1/	1,984.4	2,088.5	2,270.2	2,463.8	2,879.2	2,957.7	3,220.8	3,481.2	3,666.3	4,034.2	4,194.2
Industrial firms excl FFRDCs	906.6	887.3	874.6	1,010.2	1,103.0	1,367.3	1,651.4	1,762.0	2,077.6	1,958.3	2,156.6
FFRDCs admin by industrial firms	75.3	68.7	98.2	135.7	176.5	192.2	235.2	245.0	311.0	351.3	487.3
Univs & colleges excl FFRDCs	1,642.8	1,691.1	1,958.3	2,078.8	2,249.7	2,583.5	2,928.0	3,333.4	3,699.1	3,920.1	4,045.4
FFRDCs admin by univs	398.4	355.2	374.0	425.5	548.3	670.3	714.9	800.6	851.2	940.6	1,056.7
Nonprofit inst excl FFRDCs	342.0	316.2	414.2	394.7	435.4	512.2	590.9	622.6	678.4	705.2	743.5
FFRDCs admin by nonprofit inst	59.9	50.2	50.8	64.8	57.5	55.6	66.9	73.4	71.7	67.7	104.2
State and local governments	93.8	84.3	91.0	111.9	119.4	115.2	128.8	139.5	150.9	129.3	125.9
Foreign	44.5	40.0	44.0	44.3	50.4	60.3	69.9	77.4	91.1	106.0	108.3

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-155B. Federal obligations for research, by performer: fiscal years 1983-93

[Dollars in millions]

Performer	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5	18,650.1	20,765.5	21,731.1	23,968.4	26,195.5	27,899.3
Intramural 1/	4,710.3	4,764.7	5,056.1	5,160.3	5,437.7	5,338.4	5,981.5	5,945.8	6,539.3	7,156.5	7,840.7
Industrial firms excl FFRDCs	2,114.2	2,137.4	2,074.4	2,280.5	2,448.6	2,642.5	2,875.0	3,199.9	3,406.5	3,802.8	4,058.4
FFRDCs admin by industrial firms	522.6	496.5	485.9	482.1	433.5	455.2	519.8	542.7	624.6	689.2	678.1
Univs & colleges excl FFRDCs	4,467.9	5,029.7	5,726.3	5,883.4	6,640.2	7,022.9	7,793.1	8,141.2	8,867.5	9,624.4	10,252.5
FFRDCs admin by univs 2/	1,250.1	1,335.9	1,421.3	1,291.7	1,471.0	1,564.8	1,703.4	1,808.1	2,160.9	2,318.5	2,384.5
Nonprofit inst excl FFRDCs	836.9	922.6	1,045.1	1,062.9	1,207.5	1,300.0	1,519.8	1,662.4	1,925.9	2,124.7	2,204.0
FFRDCs admin by nonprofit inst 2/	85.2	87.3	97.0	87.9	89.8	82.9	109.5	148.2	170.9	173.9	179.9
State and local governments	136.7	88.2	69.5	91.0	90.2	103.1	121.2	126.4	129.3	162.6	153.8
Foreign	129.6	116.5	137.9	162.4	121.9	140.4	142.1	156.5	143.4	142.8	147.5

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-156A. Federal obligations for basic research, by performer: fiscal years 1972-82

[Dollars in millions]

Performer	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	2,186.9	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,481.6
Intramural 1/	596.9	608.1	695.9	733.5	786.0	914.1	1,029.3	1,089.1	1,182.5	1,301.8	1,465.5
Industrial firms excl FFRDCs	151.4	176.1	124.0	118.5	131.1	208.1	247.7	277.1	325.3	292.9	270.9
FFRDCs admin by industrial firms	32.2	39.4	31.5	47.9	59.8	53.1	65.4	66.6	70.4	73.3	87.4
Univs & colleges excl FFRDCs	1,021.4	1,048.2	1,144.7	1,260.6	1,341.7	1,555.1	1,759.2	2,079.9	2,320.3	2,503.2	2,727.1
FFRDCs admin by univs	254.5	229.0	223.1	257.5	284.9	324.1	356.8	393.6	436.8	490.6	516.7
Nonprofit inst excl FFRDCs	96.4	98.5	127.1	128.2	126.5	162.5	192.8	240.3	279.5	313.1	355.6
FFRDCs admin by nonprofit inst	7.2	3.4	6.2	13.8	7.9	5.6	5.8	6.7	7.5	8.6	9.0
State and local governments	15.6	16.2	16.8	14.0	12.9	15.6	17.1	19.8	23.9	26.5	24.5
Foreign	11.2	13.1	18.3	14.3	16.6	20.4	24.6	19.5	28.1	31.2	24.9

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-156B. Federal obligations for basic research, by performer: fiscal years 1983-93

[Dollars in millions]

Performer	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8	13,254.1	14,184.3
Intramural 1/	1,689.8	1,861.1	1,923.4	2,018.9	2,046.2	2,050.3	2,370.7	2,366.0	2,446.5	2,705.3	2,892.9
Industrial firms excl FFRDCs	292.9	377.9	380.1	511.6	467.0	596.9	773.2	887.5	949.9	1,040.6	1,103.6
FFRDCs admin by industrial firms	83.0	91.1	122.6	117.6	119.9	133.0	166.7	175.4	209.1	221.4	227.5
Univs & colleges excl FFRDCs	3,112.3	3,530.8	4,038.7	4,132.1	4,665.6	4,868.3	5,221.4	5,548.2	6,064.5	6,602.7	7,069.6
FFRDCs admin by univs 2/	604.0	668.9	724.2	724.1	906.7	989.8	1,098.1	1,227.3	1,306.2	1,387.1	1,468.5
Nonprofit inst excl FFRDCs	409.6	473.6	555.8	572.1	657.7	728.6	838.9	924.1	1,015.5	1,120.0	1,228.3
FFRDCs admin by nonprofit inst 2/	8.0	8.2	12.4	13.0	13.3	17.7	42.2	59.2	80.8	69.7	79.1
State and local governments	32.1	28.1	30.5	30.9	37.5	42.7	43.6	50.4	49.1	55.7	59.4
Foreign	28.5	27.7	30.9	32.7	28.5	46.3	47.4	47.6	49.1	51.6	55.5

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-157A. Federal obligations for applied research, by performer: fiscal years 1972-82

[Dollars in millions]

Performer	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	3,360.8	3,349.4	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,540.6
Intramural 1/	1,387.5	1,480.4	1,574.3	1,730.3	2,093.1	2,043.6	2,191.5	2,392.1	2,483.8	2,732.4	2,728.7
Industrial firms excl FFRDCs	755.2	711.2	750.7	891.7	971.9	1,159.1	1,403.7	1,484.9	1,752.3	1,665.4	1,885.7
FFRDCs admin by industrial firms	43.1	29.3	66.7	87.8	116.7	139.1	169.8	178.3	240.7	278.1	400.0
Univs & colleges excl FFRDCs	621.4	642.9	813.5	818.2	908.0	1,028.4	1,168.8	1,253.5	1,378.8	1,416.9	1,318.3
FFRDCs admin by univs	144.0	126.2	150.9	168.0	263.4	346.2	358.1	407.0	414.3	450.0	540.0
Nonprofit inst excl FFRDCs	245.5	217.7	287.1	266.4	308.9	349.6	398.1	382.3	398.9	392.1	387.9
FFRDCs admin by nonprofit inst	52.6	46.8	44.6	51.0	49.6	49.9	61.2	66.7	64.2	59.1	95.2
State and local governments	78.2	68.1	74.2	97.9	106.5	99.6	111.8	119.7	127.1	102.8	101.4
Foreign	33.3	26.9	25.7	30.0	33.8	39.9	45.3	57.9	63.0	74.8	83.4

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-157B. Federal obligations for applied research, by performer: fiscal years 1983-93

[Dollars in millions]

Performer	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1	9,176.5	10,163.5	10,445.5	11,797.6	12,941.4	13,715.0
Intramural 1/	3,020.4	2,903.6	3,132.7	3,141.5	3,391.5	3,288.1	3,610.8	3,579.7	4,092.8	4,451.2	4,947.8
Industrial firms excl FFRDCs	1,821.3	1,759.5	1,694.3	1,768.8	1,981.6	2,045.6	2,101.8	2,312.4	2,456.6	2,762.2	2,954.8
FFRDCs admin by industrial firms	439.7	405.4	363.3	364.5	313.6	322.2	353.2	367.3	415.5	467.8	450.6
Univs & colleges excl FFRDCs	1,355.6	1,498.9	1,687.6	1,751.4	1,974.6	2,154.6	2,571.8	2,593.0	2,803.0	3,021.7	3,182.9
FFRDCs admin by univs 2/	646.1	667.0	697.1	567.6	564.3	575.0	605.4	580.8	854.7	931.4	916.0
Nonprofit inst excl FFRDCs	427.3	449.0	489.3	490.8	549.8	571.3	681.0	738.3	910.4	1,004.6	975.7
FFRDCs admin by nonprofit inst 2/	77.1	79.1	84.6	74.9	76.5	65.2	67.3	89.0	90.1	104.2	100.8
State and local governments	104.7	60.0	58.9	60.0	52.7	60.4	77.6	76.1	80.2	106.9	94.4
Foreign	101.1	88.8	107.0	129.7	93.4	94.1	94.6	109.0	94.3	91.2	92.0

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-158A. Federal obligations for development, by performer: fiscal years 1972-82

[Dollars in millions]

Performer	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	10,948.2	11,218.7	11,234.9	12,309.1	13,160.3	14,936.3	16,238.4	17,610.1	18,233.1	20,891.1	23,410.4
Intramural 1/	2,604.8	2,673.7	2,640.7	2,890.2	2,889.6	3,054.0	3,589.7	3,936.3	3,966.1	4,391.5	4,946.8
Industrial firms excl FFRDCs	6,809.5	6,844.0	6,877.7	7,413.0	8,237.3	9,350.0	9,748.6	10,410.5	10,891.5	12,909.6	15,035.6
FFRDCs admin by industrial firms	454.6	513.6	494.6	568.0	637.3	920.6	1,007.3	1,073.1	1,097.0	1,082.6	1,019.1
Univs & colleges excl FFRDCs	260.7	225.5	255.7	332.7	302.1	322.0	446.6	555.5	564.4	545.6	560.0
FFRDCs admin by univs	362.1	370.1	415.2	509.6	512.8	642.8	597.1	687.7	682.2	850.4	920.0
Nonprofit inst excl FFRDCs	172.9	262.0	258.1	307.7	273.1	287.9	407.3	403.8	427.1	363.6	348.1
FFRDCs admin by nonprofit inst	155.6	132.8	148.6	155.1	173.5	208.3	249.0	295.4	370.1	457.5	416.4
State and local governments	112.9	172.6	123.3	115.7	111.8	122.9	139.6	170.7	114.6	92.9	58.4
Foreign	15.1	24.4	21.0	17.3	22.7	27.9	53.2	77.3	120.1	217.5	108.0

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-158B. Federal obligations for development, by performer: fiscal years 1983-93

[Dollars in millions]

Performer	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total	24,458.0	27,246.1	32,226.1	34,910.2	37,313.2	38,119.3	40,641.0	41,937.1	37,326.8	44,172.4	41,855.1
Intramural 1/	5,871.7	6,807.6	7,889.3	8,374.6	7,975.3	8,776.2	9,139.5	10,056.8	8,698.8	9,478.1	8,802.4
Industrial firms excl FFRDCs	14,905.5	16,472.9	19,630.5	21,920.7	24,319.6	24,076.7	25,672.9	26,178.4	23,014.1	28,352.8	27,144.3
FFRDCs admin by industrial firms	978.5	1,112.0	1,304.9	1,215.0	1,426.4	1,456.1	1,440.2	1,694.9	1,443.7	1,488.2	1,464.2
Univs & colleges excl FFRDCs	498.5	517.2	613.5	675.4	697.0	804.8	878.8	1,001.0	1,301.0	1,673.3	1,511.0
FFRDCs admin by univs 2/	1,143.8	1,149.9	1,395.1	1,476.0	1,738.6	1,909.1	1,793.6	1,658.3	1,442.9	1,512.9	1,318.2
Nonprofit inst excl FFRDCs	404.7	574.6	654.1	614.1	503.9	383.2	480.0	588.2	711.5	819.5	752.7
FFRDCs admin by nonprofit inst 2/	496.1	509.8	592.2	463.3	420.8	422.7	412.4	484.0	508.5	539.0	541.1
State and local governments	49.3	42.8	39.9	37.4	58.0	39.0	46.3	87.5	85.8	112.3	132.6
Foreign	109.9	59.2	106.7	133.9	173.4	251.4	777.3	188.1	120.5	196.3	188.6

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-159A. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1972-82

[Dollars in millions]

Field of science and engineering	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all fields	5,547.7	5,581.4	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	13,022.2
Life sciences, total	1,849.0	1,931.1	2,265.1	2,455.2	2,649.7	3,007.7	3,427.1	3,848.3	4,192.3	4,435.6	4,745.5
Biol & agricultural, total	1,079.7	1,123.2	1,316.2	1,452.2	1,535.8	1,777.6	2,024.0	2,320.3	2,507.6	2,711.8	2,811.8
Biol (excl environmental)	NA	NA	NA	NA	NA	NA	1,488.5	1,702.2	1,830.6	1,996.6	2,079.3
Environmental biology	NA	NA	NA	NA	NA	NA	184.9	216.6	229.7	220.3	183.5
Agricultural	NA	NA	NA	NA	NA	NA	350.7	401.5	447.2	494.8	549.0
Medical sciences, total	713.2	758.6	910.8	951.1	1,042.9	1,138.8	1,287.4	1,380.6	1,536.9	1,609.9	1,773.0
Clinical medical	464.2	494.2	565.7	550.6	586.7	634.4	NA	NA	NA	NA	NA
Other medical	249.0	264.3	345.2	400.5	456.3	504.4	NA	NA	NA	NA	NA
Life sciences, n.e.c.	56.1	49.3	38.1	51.9	71.0	91.4	115.7	147.3	147.9	113.9	160.7
Psychology, total	116.3	109.9	133.4	139.2	144.0	156.2	176.7	197.4	199.0	208.9	218.4
Biological aspects	36.9	32.4	49.3	37.4	43.8	57.6	53.4	56.8	59.9	57.5	59.6
Social aspects	50.7	47.7	52.0	57.1	54.9	54.5	65.4	83.6	94.8	93.5	98.1
Psychological sciences, n.e.c.	28.7	29.8	32.1	44.7	45.3	44.1	57.9	57.0	44.3	57.9	60.7
Physical sciences, total	1,020.3	981.7	1,016.1	1,096.6	1,258.9	1,530.2	1,645.6	1,792.6	2,000.6	2,220.5	2,500.4
Astronomy	136.4	123.1	136.0	168.3	163.1	197.3	213.6	284.4	285.7	281.0	275.8
Chemistry	246.8	262.5	280.4	285.6	328.4	370.7	405.0	443.6	454.5	486.9	481.2
Physics	573.6	543.2	556.6	595.0	709.3	866.3	942.4	1,022.7	1,182.5	1,345.6	1,610.5
Physical sciences, n.e.c.	63.5	52.9	43.0	47.8	58.1	95.9	84.6	41.8	77.9	107.0	132.9
Environmental sciences, total	567.6	580.5	636.3	727.3	769.3	906.0	1,024.6	1,101.0	1,261.0	1,121.1	1,148.3
Atmospheric sciences	241.3	246.6	288.3	302.2	289.3	318.4	319.2	348.7	409.5	373.4	425.8
Geological sciences	161.1	168.4	157.1	191.7	227.2	269.4	316.4	358.7	401.8	396.1	357.6
Oceanography	116.5	97.9	120.0	143.8	164.0	195.9	223.8	220.5	262.1	261.7	261.3
Environmental sciences, n.e.c.	48.7	67.7	71.0	89.5	88.8	122.3	165.2	173.1	187.6	89.9	103.6
Math & computer sci, total	120.7	114.8	114.3	125.3	157.8	195.9	216.3	210.3	240.9	278.9	350.1
Mathematics	NA	NA	NA	NA	69.9	96.4	93.4	84.2	90.9	117.7	128.1
Computer sciences	NA	NA	NA	NA	73.6	89.4	107.3	106.3	128.6	121.5	170.9
Math & computer sci, n.e.c.	NA	NA	NA	NA	14.3	10.1	15.7	19.9	21.4	39.7	51.0
Engineering, total	1,450.7	1,370.6	1,563.7	1,717.8	2,068.7	2,112.9	2,421.2	2,571.6	2,830.1	3,071.5	3,386.5
Aeronautical	209.5	232.7	336.1	345.1	526.8	408.8	482.9	624.9	708.1	709.6	741.2
Astronautical	65.6	45.9	97.5	99.1	179.4	159.0	165.1	251.1	302.3	303.9	290.7
Chemical	77.1	72.0	61.5	83.9	88.3	104.8	149.4	114.3	98.3	147.6	95.1
Civil	123.3	108.2	103.6	125.6	105.9	117.4	142.4	125.0	158.8	159.1	201.9
Electrical	333.7	297.6	269.2	287.0	297.7	382.7	432.8	417.9	517.1	556.7	612.2
Mechanical	174.7	212.9	131.7	162.5	185.7	199.2	234.1	195.9	208.0	204.6	201.2
Metallurgy & materials	182.1	172.5	190.8	221.8	274.9	293.8	286.0	249.3	236.2	256.0	309.1
Engineering, n.e.c.	284.8	230.8	373.5	392.9	410.0	447.2	528.8	593.2	603.3	733.9	935.1
Social sciences, total	306.9	298.8	292.2	301.8	392.5	426.1	489.5	527.3	523.8	497.4	385.9
Anthropology	13.2	11.8	13.4	13.9	13.6	12.4	19.5	17.3	17.2	14.5	14.6
Economics	81.8	88.1	118.0	126.2	137.6	142.9	163.2	181.9	192.8	208.7	157.1
Political science	4.6	7.1	8.5	11.7	7.2	8.5	8.8	13.9	12.2	10.8	7.5
Sociology	119.4	102.1	64.3	54.9	53.6	52.2	60.3	64.5	71.4	65.0	52.0
Social sciences, n.e.c.	88.0	89.7	88.1	95.1	180.4	210.3	237.6	249.6	230.3	200.4	154.7
History	4.5	4.9	6.2	7.0	NA	NA	NA	NA	NA	NA	NA
Linguistics	3.8	4.2	3.1	3.0	NA	NA	NA	NA	NA	NA	NA
Other social sciences	79.7	80.6	78.7	85.1	NA	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	116.2	194.0	154.1	166.6	178.6	179.1	205.8	286.6	349.6	378.8	287.0

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-159B. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1983-93

[Dollars in millions]

Field of science and engineering	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all fields	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5	18,650.1	20,765.5	21,731.1	23,988.4	26,195.5	27,899.3
Life sciences, total	5,177.9	5,635.9	6,362.5	6,464.3	7,341.4	7,724.5	8,495.1	8,829.8	9,622.0	10,588.8	11,338.2
Biol & agricultural, total	3,064.4	3,325.0	3,755.3	3,861.3	4,358.5	4,573.4	5,020.0	5,178.4	5,597.9	6,083.3	6,414.6
Biol (excl environmental)	2,305.5	2,563.1	2,885.7	2,993.4	3,502.0	3,681.7	3,983.2	4,144.6	4,411.9	4,815.7	5,124.6
Environmental biology	193.6	250.0	260.3	264.1	289.6	301.0	367.8	342.3	459.7	497.1	509.0
Agricultural	565.2	512.0	609.3	603.8	566.9	590.7	669.0	691.4	726.2	770.5	781.0
Medical sciences, total	1,927.5	2,112.8	2,368.5	2,360.4	2,664.8	2,941.0	3,222.5	3,382.4	3,460.3	3,883.7	4,080.7
Life sciences, n.e.c.	186.1	198.1	238.7	242.6	318.2	210.1	252.6	269.1	563.8	621.8	843.0
Psychology, total	240.9	266.7	327.1	334.0	369.5	389.8	421.7	448.6	482.4	521.3	570.6
Biological aspects	63.2	80.8	91.2	90.1	98.3	105.3	121.8	131.7	140.4	152.7	166.4
Social aspects	104.7	107.8	142.9	143.5	154.5	149.4	149.9	180.8	198.4	208.2	231.6
Psychological sciences, n.e.c.	73.0	78.1	93.1	100.4	116.7	135.2	149.9	136.2	143.6	160.3	172.6
Physical sciences, total	2,891.4	2,969.0	3,046.0	3,089.1	3,252.6	3,317.3	3,705.2	3,808.7	4,235.3	4,533.7	4,789.9
Astronomy	357.4	382.3	414.7	468.2	522.2	470.8	541.9	597.2	631.7	707.2	791.9
Chemistry	520.3	606.4	650.4	662.4	680.3	703.1	782.6	761.7	828.4	909.4	950.9
Physics	1,854.6	1,836.4	1,816.0	1,805.9	1,853.6	1,975.3	2,190.8	2,254.9	2,460.9	2,583.6	2,685.8
Physical sciences, n.e.c.	159.2	143.9	164.8	132.6	196.6	168.1	189.9	195.0	314.3	333.4	361.3
Environmental sciences, total	1,251.2	1,275.9	1,403.7	1,481.7	1,511.6	1,607.0	1,773.2	2,174.1	2,149.8	2,359.8	2,503.2
Atmospheric sciences	460.7	434.1	486.0	521.3	552.9	587.8	588.0	773.4	802.7	876.3	985.1
Geological sciences	333.5	359.0	429.0	443.9	441.7	441.6	542.8	661.1	728.7	788.2	794.3
Oceanography	343.5	363.5	398.5	429.7	427.4	460.4	491.9	520.1	398.6	429.2	476.0
Environmental sciences, n.e.c.	113.5	119.3	90.2	86.8	89.5	117.1	150.5	219.5	219.8	266.1	267.9
Math & computer sci, total	419.4	440.3	574.9	615.4	640.6	642.9	735.4	840.7	903.7	1,153.9	1,212.3
Mathematics	133.5	151.0	183.6	184.5	204.5	217.9	236.1	241.3	227.6	269.8	293.5
Computer sciences	214.6	214.5	280.3	302.4	297.8	292.7	364.6	562.1	584.9	778.2	811.9
Math & computer sci, n.e.c.	71.4	74.8	111.0	128.5	138.3	132.3	134.8	37.3	91.1	105.9	106.9
Engineering, total	3,517.0	3,624.1	3,617.6	3,738.9	3,906.3	3,956.4	4,442.2	4,335.4	4,944.5	5,487.7	5,935.3
Aeronautical	820.6	860.4	738.0	775.6	810.4	801.8	986.8	927.1	1,016.2	1,167.0	1,367.7
Astronautical	321.5	396.8	424.7	526.9	624.6	575.4	677.4	580.8	653.1	659.2	771.3
Chemical	145.0	144.5	254.3	245.8	215.8	258.1	142.2	241.9	304.3	350.4	309.3
Civil	188.5	202.8	216.6	202.9	204.4	214.9	229.8	317.7	305.0	352.0	367.3
Electrical	614.9	630.0	626.8	674.4	786.3	731.1	843.1	640.0	729.9	759.9	837.6
Mechanical	266.4	190.5	267.0	236.5	233.5	240.8	257.4	268.3	335.5	342.6	394.9
Metallurgy & materials	332.5	341.1	439.2	445.0	362.0	456.7	521.0	554.5	709.9	752.7	693.2
Engineering, n.e.c.	827.6	858.0	651.0	631.7	669.3	677.8	784.5	805.1	890.5	1,103.9	1,174.1
Social sciences, total	435.3	436.3	460.0	415.5	480.0	485.8	551.0	630.0	727.3	790.2	717.7
Anthropology	12.8	18.6	18.0	13.6	15.2	14.3	13.9	14.4	16.0	16.3	18.7
Economics	165.6	147.3	159.7	131.3	148.5	159.5	186.8	197.2	187.4	197.3	188.7
Political science	11.1	10.8	14.6	11.8	11.3	12.2	13.5	13.1	17.0	18.8	17.8
Sociology	67.8	70.2	66.5	67.0	74.0	81.8	94.1	116.2	184.0	191.9	168.5
Social sciences, n.e.c.	178.0	189.5	201.3	192.0	231.0	218.0	282.8	289.1	322.9	366.0	324.2
Other sciences, n.e.c.	320.4	330.5	341.6	383.3	438.3	526.5	641.6	663.7	903.4	760.2	832.1

NOTE: Because of rounding, detail may not add to totals.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-160A. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1972-82

[Dollars in millions]

Field of science and engineering	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all fields	2,186.9	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,481.6
Life sciences, total	867.7	888.4	1,032.2	1,115.9	1,222.0	1,383.4	1,588.4	1,891.8	2,054.4	2,223.8	2,526.0
Biol & agricultural, total	596.8	608.6	691.9	747.0	818.4	933.6	1,078.7	1,279.3	1,339.4	1,462.4	1,674.8
Biol (excl environmental)	NA	NA	NA	NA	NA	NA	874.5	1,055.5	1,099.9	1,201.7	1,401.2
Environmental biology	NA	NA	NA	NA	NA	NA	64.3	90.8	86.1	83.3	83.2
Agricultural	NA	NA	NA	NA	NA	NA	139.8	133.0	153.5	177.4	190.4
Medical sciences, total	245.8	253.2	317.6	342.4	374.4	414.8	467.7	560.1	657.0	706.2	793.4
Clinical medical	37.3	35.2	32.9	38.8	41.6	39.6	NA	NA	NA	NA	NA
Other medical	208.5	218.0	284.7	303.5	332.8	375.2	NA	NA	NA	NA	NA
Life sciences, n.e.c.	25.1	26.5	22.7	26.6	29.2	35.0	42.0	52.4	58.0	55.3	57.8
Psychology, total	51.4	45.4	46.1	58.6	45.5	55.7	67.5	75.1	84.2	91.0	89.9
Biological aspects	22.0	18.6	18.6	18.2	18.5	22.5	23.5	26.4	30.2	30.5	32.9
Social aspects	21.5	18.6	18.0	22.2	16.1	20.0	25.3	34.0	31.3	30.2	33.7
Psychological sciences, n.e.c.	7.9	8.2	9.5	18.2	11.0	13.1	18.7	14.7	22.8	30.2	23.3
Physical sciences, total	636.7	628.2	649.6	709.0	721.4	890.0	941.4	1,050.0	1,220.6	1,324.9	1,393.8
Astronomy	128.9	121.5	133.3	163.0	160.0	193.3	209.8	280.6	279.4	274.2	271.1
Chemistry	140.5	146.4	149.3	158.6	168.3	208.7	203.3	224.8	256.9	298.2	312.0
Physics	361.7	350.8	360.3	379.0	388.4	467.4	518.8	535.6	668.2	735.4	790.7
Physical sciences, n.e.c.	5.6	9.5	6.7	8.3	4.8	20.6	9.5	8.9	16.1	17.1	20.0
Environmental sciences, total	262.7	273.4	291.6	280.8	294.3	387.5	451.3	457.3	522.4	532.8	520.0
Atmospheric sciences	114.8	133.9	138.5	111.0	114.0	143.5	163.3	169.2	179.0	173.8	163.2
Geological sciences	67.0	79.9	80.9	88.6	95.7	128.7	145.1	157.6	198.3	194.2	177.5
Oceanography	71.2	46.2	62.9	73.2	78.6	104.6	120.7	119.1	130.7	143.3	154.5
Environmental sciences, n.e.c.	9.6	13.4	9.4	7.9	8.0	10.7	22.2	11.4	14.3	21.5	24.9
Math & computer sci, total	66.6	60.1	52.7	62.0	81.8	83.4	97.7	104.2	116.3	140.4	165.1
Mathematics	NA	NA	NA	NA	43.2	52.1	55.9	60.0	66.8	79.2	90.9
Computer sciences	NA	NA	NA	NA	26.6	31.0	40.3	43.0	46.2	52.2	67.4
Math & computer sci, n.e.c.	NA	NA	NA	NA	12.0	.3	1.6	1.2	3.2	9.0	6.8
Engineering, total	206.2	220.8	214.9	262.8	272.8	337.7	392.6	434.7	465.2	526.0	610.5
Aeronautical	27.3	34.3	32.2	30.2	32.0	49.5	82.8	88.4	104.2	113.3	126.5
Astronautical	7.7	7.2	11.1	11.3	11.9	10.2	14.9	25.2	27.2	33.2	44.8
Chemical	10.8	12.4	11.3	16.4	18.4	24.0	24.1	24.6	26.1	31.3	35.2
Civil	8.9	10.4	10.1	7.7	7.8	10.4	10.8	14.2	22.0	23.4	32.0
Electrical	41.6	44.0	38.4	47.8	53.1	55.1	57.4	62.0	70.6	78.5	93.6
Mechanical	26.8	27.8	17.3	17.6	20.1	29.6	29.5	35.9	42.2	47.4	53.1
Metallurgy & materials	62.5	67.7	74.6	99.7	103.3	124.9	134.5	151.1	121.3	138.5	155.9
Engineering, n.e.c.	20.6	16.9	19.8	32.2	28.3	33.9	38.4	33.2	51.8	60.5	69.4
Social sciences, total	80.1	80.2	74.8	73.8	86.4	95.5	124.3	129.7	147.2	137.0	120.2
Anthropology	9.9	10.7	8.8	7.0	6.4	8.0	12.0	12.5	14.2	13.1	13.1
Economics	23.6	21.7	25.1	22.1	25.6	29.1	33.6	32.7	40.0	34.1	39.0
Political science	2.8	3.0	2.2	1.6	3.0	2.5	3.2	4.1	7.4	6.3	4.4
Sociology	20.7	12.5	14.4	15.1	16.6	15.9	18.6	18.4	25.4	22.6	18.7
Social sciences, n.e.c.	23.1	32.4	24.3	28.0	34.8	39.9	57.0	62.0	60.2	60.9	45.1
History	4.3	4.6	5.9	6.0	NA	NA	NA	NA	NA	NA	NA
Linguistics	2.5	3.1	2.1	2.1	NA	NA	NA	NA	NA	NA	NA
Other social sciences	16.3	24.7	16.3	19.9	NA	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	15.6	35.6	25.7	25.5	43.1	25.5	35.4	50.0	63.9	65.4	56.1

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-160B. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1983-93

[Dollars in millions]

Field of science and engineering	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all fields	6,260.1	7,087.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8	13,254.1	14,184.3
Life sciences, total	2,891.3	3,287.6	3,786.6	3,858.8	4,361.9	4,501.8	4,915.7	5,177.5	5,433.6	6,145.5	6,821.6
Biol & agricultural, total	1,928.8	2,174.7	2,515.5	2,543.0	2,870.4	2,855.3	3,102.9	3,219.0	3,374.9	3,773.3	4,070.9
Biol (excl environmental)	1,621.9	1,835.8	2,106.3	2,151.5	2,461.5	2,414.9	2,647.2	2,742.2	2,868.5	3,214.2	3,475.5
Environmental biology	92.7	120.8	125.7	125.7	141.0	146.8	157.3	168.3	186.9	208.4	222.4
Agricultural	214.2	218.1	283.5	265.7	267.9	293.7	298.4	308.5	319.4	352.6	372.9
Medical sciences, total	878.9	1,015.3	1,145.4	1,196.6	1,341.0	1,573.2	1,708.4	1,849.6	1,857.7	2,145.0	2,298.8
Life sciences, n.e.c.	83.6	97.7	125.7	119.2	150.6	73.2	104.4	108.9	201.0	227.2	251.9
Psychology, total	92.9	107.9	132.8	133.0	147.1	177.8	187.1	215.1	225.5	248.8	264.9
Biological aspects	31.4	43.7	48.0	47.0	49.3	52.4	61.0	65.9	68.2	75.1	84.5
Social aspects	32.8	33.4	46.9	45.3	45.5	40.9	38.1	62.7	69.2	75.6	79.0
Psychological sciences, n.e.c.	28.7	30.8	38.0	40.7	52.3	84.5	88.0	86.5	88.1	98.1	101.4
Physical sciences, total	1,587.2	1,728.0	1,815.2	1,914.4	2,096.0	2,199.6	2,506.5	2,661.5	2,881.5	3,082.8	3,248.8
Astronomy	354.5	379.6	400.7	453.1	504.5	458.5	524.6	579.9	612.3	698.5	782.3
Chemistry	362.2	403.4	425.0	433.4	445.1	470.8	504.6	502.1	538.7	580.8	629.5
Physics	855.1	921.4	959.9	1,003.4	1,072.3	1,205.5	1,395.3	1,474.3	1,644.9	1,662.6	1,709.1
Physical sciences, n.e.c.	15.4	23.6	29.7	24.7	74.2	64.8	81.9	105.1	85.5	120.9	127.9
Environmental sciences, total	580.1	656.7	699.7	749.1	781.0	872.7	1,016.9	1,274.8	1,263.5	1,388.7	1,510.3
Atmospheric sciences	172.6	192.2	209.2	240.4	243.8	280.7	318.4	443.7	449.0	513.8	577.7
Geological sciences	178.3	198.0	250.0	265.5	266.2	287.3	334.9	439.7	499.0	535.4	555.7
Oceanography	195.6	220.1	219.3	224.3	249.8	269.4	293.5	299.7	197.5	211.4	236.8
Environmental sciences, n.e.c.	33.5	46.4	21.2	18.9	21.2	55.2	72.1	91.6	118.0	128.3	140.2
Math & computer sci, total	208.1	240.8	260.0	293.4	306.4	313.2	345.8	406.9	426.1	513.3	562.9
Mathematics	100.9	113.9	130.3	142.4	158.4	165.4	167.8	178.3	184.4	202.7	214.9
Computer sciences	90.4	104.8	116.1	131.4	128.5	125.5	159.5	225.2	223.5	274.6	312.9
Math & computer sci, n.e.c.	16.8	22.2	13.6	19.6	19.5	22.4	18.4	5.3	38.2	36.0	35.1
Engineering, total	689.5	845.0	884.2	968.5	989.5	1,008.2	1,183.7	1,101.5	1,233.7	1,398.9	1,430.8
Aeronautical	140.7	225.5	191.5	226.3	237.4	231.0	327.9	269.6	258.2	283.8	315.0
Astronautical	50.4	52.4	41.6	52.5	48.8	48.4	58.9	62.3	69.7	75.2	82.7
Chemical	50.4	55.5	74.4	73.0	77.5	88.6	50.1	75.8	101.7	112.0	105.0
Civil	32.4	41.9	43.6	45.2	45.7	46.1	51.7	47.3	59.3	60.8	62.5
Electrical	95.8	130.4	144.9	156.3	175.4	154.0	173.8	146.9	142.5	169.5	180.0
Mechanical	60.7	64.1	88.2	83.6	87.2	83.5	100.8	91.4	115.6	134.2	149.0
Metallurgy & materials	182.9	187.3	211.9	228.5	209.8	230.1	254.8	260.2	294.6	304.5	330.3
Engineering, n.e.c.	76.2	87.9	88.2	103.2	107.8	124.4	165.7	147.9	194.3	257.0	208.2
Social sciences, total	137.7	132.6	140.7	113.5	129.5	146.8	154.6	146.0	161.3	161.4	172.0
Anthropology	11.2	16.8	15.8	11.2	12.3	12.1	12.1	12.5	12.7	12.8	14.6
Economics	41.0	29.7	34.3	26.3	29.0	34.7	37.7	37.1	37.3	40.0	39.5
Political science	4.6	4.1	5.8	4.1	5.5	5.1	5.4	6.4	7.1	7.1	7.7
Sociology	32.8	33.9	32.4	30.0	34.3	38.8	38.2	24.2	28.2	29.1	30.7
Social sciences, n.e.c.	48.2	48.1	52.4	41.9	48.4	58.1	61.2	65.8	75.9	72.4	79.5
Other sciences, n.e.c.	73.3	68.8	99.4	122.5	130.9	255.5	291.7	302.3	545.6	338.7	373.1

NOTE: Because of rounding, detail may not add to totals.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-161A. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1972-82

[Dollars in millions]

Field of science and engineering	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total, all fields	3,360.8	3,349.4	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,540.6
Life sciences, total	981.2	1,042.7	1,233.0	1,339.3	1,427.7	1,624.4	1,838.7	1,956.5	2,137.9	2,211.8	2,219.5
Biol & agricultural, total	482.9	514.6	624.3	705.2	717.4	844.0	945.3	1,041.0	1,168.1	1,249.4	1,137.0
Biol (excl environmental)	NA	NA	NA	NA	NA	NA	614.0	646.7	730.8	794.9	678.1
Environmental biology	NA	NA	NA	NA	NA	NA	120.5	125.8	143.6	137.0	100.4
Agricultural	NA	NA	NA	NA	NA	NA	210.8	268.6	293.7	317.4	358.6
Medical sciences, total	467.4	505.4	593.3	608.7	668.6	724.0	819.8	820.5	879.9	903.7	979.6
Clinical medical	426.9	459.0	532.7	511.7	545.1	594.8	NA	NA	NA	NA	NA
Other medical	40.5	46.3	60.5	97.0	123.5	129.2	NA	NA	NA	NA	NA
Life sciences, n.e.c.	31.0	22.8	15.4	25.4	41.7	56.4	73.6	95.0	89.9	58.7	102.9
Psychology, total	64.9	64.6	87.3	80.6	98.5	100.5	109.2	122.3	114.8	117.9	128.5
Biological aspects	14.9	13.8	30.7	19.2	25.3	35.1	29.9	30.4	29.7	27.0	26.7
Social aspects	29.2	29.1	33.9	34.9	38.8	34.5	40.1	49.6	63.5	63.3	64.4
Psychological sciences, n.e.c.	20.8	21.7	22.6	26.5	34.3	30.9	39.1	42.3	21.5	27.7	37.4
Physical sciences, total	383.6	353.5	366.5	387.7	537.5	640.2	704.2	742.6	780.0	895.6	1,106.5
Astronomy	7.5	1.6	2.7	5.3	3.1	4.0	3.8	3.8	6.3	6.8	4.7
Chemistry	106.3	116.1	131.1	126.9	160.2	162.0	201.7	218.8	197.6	188.7	169.2
Physics	211.8	192.5	196.3	216.0	320.8	398.8	423.6	487.1	514.4	610.2	819.8
Physical sciences, n.e.c.	57.9	43.4	36.3	39.5	53.3	75.3	75.1	32.8	61.8	89.9	112.9
Environmental sciences, total	304.9	307.1	344.7	446.5	475.0	518.5	573.3	643.7	738.6	588.2	628.3
Atmospheric sciences	126.5	112.7	149.8	191.2	175.3	174.9	155.9	179.5	230.5	199.6	262.6
Geological sciences	94.1	88.5	76.2	103.1	131.5	140.7	171.2	201.1	203.4	201.9	180.1
Oceanography	45.3	51.7	57.1	70.6	87.4	91.3	103.1	101.4	131.4	118.4	106.8
Environmental sciences, n.e.c.	39.1	54.3	61.6	81.6	80.8	111.6	143.0	161.7	173.3	68.4	78.7
Math & computer sci, total	54.1	54.7	61.5	63.3	76.0	112.5	118.5	106.1	124.7	138.6	185.0
Mathematics	NA	NA	NA	NA	26.7	44.3	37.5	24.2	24.1	38.6	37.3
Computer sciences	NA	NA	NA	NA	47.0	58.3	67.0	63.3	82.4	69.3	103.5
Math & computer sci, n.e.c.	NA	NA	NA	NA	2.3	9.9	14.1	18.6	18.2	30.7	44.3
Engineering, total	1,244.5	1,149.8	1,348.9	1,454.9	1,795.9	1,775.2	2,028.6	2,137.0	2,364.9	2,545.4	2,776.1
Aeronautical	182.2	198.4	303.9	314.9	494.8	359.3	400.0	536.5	604.0	596.3	614.7
Astronautical	57.8	38.7	86.4	87.8	167.5	148.8	150.2	226.0	275.1	270.8	245.9
Chemical	66.3	59.5	50.1	67.5	69.8	80.8	125.3	89.7	70.2	116.3	59.9
Civil	114.4	95.7	93.5	117.9	98.1	107.0	131.6	110.8	136.8	135.8	169.9
Electrical	292.1	253.6	230.8	239.2	244.6	327.6	375.2	355.8	446.6	478.2	518.6
Mechanical	148.0	185.1	114.4	144.8	165.6	169.5	204.7	160.0	165.8	157.3	148.1
Metallurgy & materials	119.5	104.8	116.0	122.1	171.6	168.9	151.4	98.2	114.8	117.5	153.2
Engineering, n.e.c.	264.2	213.9	353.7	360.7	383.7	413.3	490.2	560.0	551.6	673.4	865.7
Social sciences, total	226.8	218.6	217.4	228.1	306.0	330.6	365.1	397.6	376.6	360.5	285.7
Anthropology	3.3	1.1	4.6	6.9	7.2	4.3	7.6	4.9	2.9	1.5	1.5
Economics	58.2	66.4	92.9	104.2	111.9	113.8	129.6	149.2	152.8	172.6	118.2
Political science	1.7	4.1	6.2	10.1	4.2	5.9	5.6	9.8	4.8	4.5	3.2
Sociology	98.7	89.6	49.9	39.8	37.0	36.2	41.7	46.1	46.1	42.4	33.3
Social sciences, n.e.c.	64.9	57.3	63.8	67.1	145.6	170.3	180.6	187.6	170.1	139.5	109.6
History	.2	.2	.3	1.0	NA	NA	NA	NA	NA	NA	NA
Linguistics	1.3	1.1	1.0	.9	NA	NA	NA	NA	NA	NA	NA
Other social sciences	63.4	55.9	62.5	65.2	NA	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	100.6	158.4	128.4	141.0	135.4	153.6	170.4	236.6	285.7	313.5	231.0

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-161B. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1983-93

[Dollars in millions]

Field of science and engineering	1983	1984	1985	1986	1987	1988	1989	1990	1991	Estimates	
										1992	1993
Total, all fields	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1	9,176.5	10,163.5	10,445.5	11,797.6	12,941.4	13,715.0
Life sciences, total	2,286.6	2,348.3	2,575.9	2,605.5	2,979.5	3,222.7	3,579.4	3,652.3	4,188.4	4,443.4	4,716.6
Biol & agricultural, total	1,135.6	1,150.3	1,239.8	1,318.4	1,488.1	1,718.0	1,917.2	1,959.4	2,223.0	2,310.1	2,343.7
Biol (excl environmental)	683.7	727.3	779.3	841.9	1,040.5	1,266.8	1,336.0	1,402.5	1,543.4	1,601.5	1,649.1
Environmental biology	101.0	129.2	134.6	138.3	148.6	154.2	210.5	174.0	272.8	290.7	286.5
Agricultural	351.0	293.8	325.8	338.1	299.1	297.0	370.7	382.9	406.8	417.9	408.1
Medical sciences, total	1,048.5	1,097.5	1,223.1	1,163.8	1,323.8	1,367.8	1,514.1	1,532.7	1,602.6	1,738.7	1,781.9
Life sciences, n.e.c.	102.4	100.4	113.0	123.3	167.6	136.9	148.1	160.2	362.9	394.6	591.1
Psychology, total	147.9	158.8	194.3	201.0	222.4	212.0	234.5	233.5	256.9	272.5	305.7
Biological aspects	31.8	37.1	43.2	43.1	49.1	52.9	60.8	65.8	72.1	77.7	81.8
Social aspects	71.8	74.3	96.0	98.3	108.9	108.4	111.8	118.1	129.2	132.6	152.6
Psychological sciences, n.e.c.	44.3	47.4	55.1	59.7	64.4	50.7	61.9	49.7	55.5	62.2	71.2
Physical sciences, total	1,304.3	1,241.0	1,230.8	1,154.6	1,156.6	1,117.7	1,198.8	1,147.2	1,353.9	1,470.9	1,541.1
Astronomy	3.0	2.7	14.1	15.1	17.7	12.3	17.3	17.2	19.3	8.7	9.6
Chemistry	158.1	203.0	225.4	229.0	235.2	232.3	278.0	259.6	289.7	328.6	321.4
Physics	999.5	915.0	856.1	802.6	781.4	769.8	795.5	780.6	816.0	921.0	976.7
Physical sciences, n.e.c.	143.7	120.3	135.2	107.9	122.4	103.3	108.0	89.8	228.9	212.6	233.4
Environmental sciences, total	671.2	619.2	704.0	732.6	730.6	734.3	756.3	899.3	886.3	973.0	993.0
Atmospheric sciences	288.1	242.0	276.8	280.9	309.1	307.1	271.6	329.7	353.7	362.7	387.4
Geological sciences	155.2	161.0	179.0	178.4	175.6	174.3	207.8	221.4	229.7	252.8	238.6
Oceanography	147.9	143.4	179.3	205.4	177.6	190.9	198.4	220.4	201.0	217.8	239.4
Environmental sciences, n.e.c.	80.0	72.9	69.0	67.9	68.3	61.9	78.5	127.8	101.7	139.8	127.6
Math & computer sci, total	211.3	199.5	314.9	322.0	334.3	329.6	389.7	433.9	477.6	640.6	649.4
Mathematics	32.6	37.1	53.4	42.1	46.1	52.5	68.3	65.0	63.2	67.1	78.6
Computer sciences	124.1	109.7	164.2	171.0	169.3	167.2	205.1	336.9	361.4	503.6	499.0
Math & computer sci, n.e.c.	54.6	52.7	97.3	108.9	118.9	109.9	116.3	31.9	52.9	69.9	71.8
Engineering, total	2,827.5	2,779.1	2,733.4	2,770.4	2,916.8	2,950.2	3,258.4	3,233.9	3,710.8	4,090.8	4,504.5
Aeronautical	679.9	634.9	546.5	549.3	573.0	570.8	658.9	657.5	760.0	883.2	1,052.7
Astronautical	271.1	344.4	383.2	474.4	575.9	526.9	618.5	518.5	583.4	584.0	688.5
Chemical	94.6	88.9	179.9	172.8	138.3	169.5	92.2	166.0	202.6	238.4	204.3
Civil	156.0	161.0	173.0	157.8	158.7	168.7	178.1	270.4	245.7	291.2	324.8
Electrical	519.1	499.7	481.9	518.1	610.9	577.1	669.3	493.1	587.4	590.4	657.6
Mechanical	205.7	126.3	178.8	153.0	146.2	157.2	156.5	176.9	220.0	208.3	245.9
Metallurgy & materials	149.6	153.7	227.4	216.6	152.2	226.6	266.2	294.3	415.3	448.2	362.9
Engineering, n.e.c.	751.4	770.1	562.8	528.5	561.6	553.3	618.8	657.1	696.2	847.0	967.9
Social sciences, total	297.5	303.8	319.3	302.0	350.5	339.0	396.4	484.0	566.0	628.8	545.7
Anthropology	1.6	1.7	2.1	2.4	2.9	2.2	1.8	1.9	3.3	3.5	4.1
Economics	124.6	117.6	125.4	105.0	119.6	124.8	129.1	160.1	150.1	157.3	149.2
Political science	6.6	6.7	8.9	7.5	5.8	7.1	8.1	6.8	10.0	11.6	9.9
Sociology	35.0	36.3	34.0	37.0	39.6	45.0	55.9	92.0	155.7	162.8	137.8
Social sciences, n.e.c.	129.8	141.4	148.9	150.2	182.6	159.9	201.6	223.3	246.9	293.5	244.7
Other sciences, n.e.c.	247.1	261.7	242.2	260.9	307.4	271.0	350.0	361.5	357.8	421.5	459.0

NOTE: Because of rounding, detail may not add to totals.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-162A. Federal obligations for research and development, by State: fiscal years 1972-82

[Dollars in millions]

State	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	16,261.8	16,486.1	16,990.7	18,542.3	20,247.4	22,841.1	25,077.7	27,084.2	28,627.3	31,929.6	35,361.6
Alabama	359.0	376.5	377.4	363.1	374.4	414.7	432.0	516.9	455.7	493.5	561.5
Alaska	46.0	41.8	25.3	36.4	37.6	38.1	48.7	45.9	42.5	51.8	40.0
Arizona	89.9	94.8	99.5	116.3	122.5	142.5	163.4	201.4	334.6	367.7	264.5
Arkansas	13.2	16.6	14.2	23.3	26.5	24.3	42.4	37.3	30.0	31.2	43.5
California	3,473.1	3,840.2	4,075.7	4,839.6	5,496.1	5,785.5	5,839.2	6,338.6	6,097.7	7,049.7	8,888.3
Colorado	369.1	410.8	323.3	267.9	248.6	324.2	393.2	442.2	573.7	632.8	556.6
Connecticut	169.2	193.9	233.7	269.7	239.4	291.8	299.8	328.4	470.3	485.0	439.6
Delaware	17.4	40.8	10.4	10.0	8.0	15.3	11.1	14.4	20.8	25.9	34.6
District of Columbia	462.1	490.0	552.3	580.3	570.3	728.1	790.2	768.4	807.0	921.0	954.6
Florida	1,022.5	952.0	783.2	796.8	788.3	872.5	890.1	913.1	1,120.8	1,373.7	1,776.4
Georgia	71.9	66.8	70.9	81.0	92.3	111.2	155.7	184.4	169.8	195.0	217.3
Hawaii	47.4	47.9	53.1	43.0	45.5	36.9	44.6	40.8	42.6	49.9	44.5
Idaho	75.9	81.8	52.2	67.2	72.7	119.8	107.0	147.1	147.7	119.5	127.0
Illinois	291.0	287.6	325.4	371.3	414.3	517.2	564.3	547.2	599.9	572.6	543.0
Indiana	100.5	82.9	95.0	92.8	92.4	102.8	108.1	122.0	162.4	170.1	186.2
Iowa	37.9	38.5	46.5	47.8	48.5	60.1	68.3	84.9	121.7	147.4	136.3
Kansas	31.3	30.4	29.4	32.8	32.1	36.3	106.6	136.3	353.6	471.0	637.7
Kentucky	32.1	38.1	31.3	35.2	51.0	56.6	62.1	43.0	107.9	101.0	97.2
Louisiana	103.6	91.6	75.7	101.8	126.1	156.5	162.7	209.1	190.3	331.8	236.8
Maine	16.3	9.6	10.5	11.9	15.6	18.3	25.4	23.1	25.9	24.4	23.9
Maryland	1,318.1	1,434.8	1,528.9	1,610.3	1,811.2	1,991.4	2,091.0	2,299.8	2,465.0	2,585.1	2,850.2
Massachusetts	961.2	953.6	1,188.3	1,228.6	1,284.9	1,472.0	1,689.3	2,055.6	2,047.7	2,407.1	2,775.2
Michigan	186.3	153.8	196.6	248.9	222.2	316.6	367.8	264.4	377.5	357.2	376.7
Minnesota	127.0	120.2	106.9	123.2	153.3	186.5	177.7	202.8	261.6	309.0	378.6
Mississippi	60.7	57.5	76.3	57.9	71.6	95.4	87.1	100.7	109.3	125.5	125.7
Missouri	679.5	608.1	387.0	330.0	404.3	639.6	827.3	778.9	801.6	820.4	911.3
Montana	19.0	19.9	13.6	28.4	29.8	47.8	27.5	41.6	45.7	45.4	42.7
Nebraska	11.7	13.4	14.7	20.3	21.4	24.5	33.5	31.3	31.6	31.7	32.0
Nevada	140.3	143.1	112.5	150.0	179.7	184.3	196.7	222.1	214.5	263.0	376.3
New Hampshire	21.5	30.6	29.3	33.6	34.7	32.6	68.7	94.1	50.2	54.8	50.8
New Jersey	763.1	645.2	473.8	442.0	495.7	566.3	522.5	649.3	729.4	775.4	887.9
New Mexico	451.5	462.8	532.0	554.8	626.3	751.4	987.4	955.5	954.2	1,224.1	1,322.6
New York	1,075.6	932.6	1,026.3	1,058.6	1,107.4	1,203.8	1,284.1	1,362.2	1,488.8	1,557.7	1,692.5
North Carolina	83.3	101.7	110.0	116.9	139.1	154.7	192.3	220.9	227.7	259.8	272.7
North Dakota	10.5	9.5	10.5	13.0	14.8	19.3	28.3	33.4	38.7	40.1	36.5
Ohio	521.7	478.8	567.3	585.2	627.8	694.8	858.3	1,053.2	1,054.7	1,117.2	1,024.8
Oklahoma	29.1	34.8	29.9	34.5	32.1	48.2	105.0	70.1	94.5	82.4	65.6
Oregon	53.7	64.3	59.9	79.0	84.6	84.9	95.3	100.1	97.9	105.6	106.3
Pennsylvania	642.3	628.8	680.1	780.7	836.0	837.5	995.7	1,099.9	1,059.4	1,082.9	1,131.5
Rhode Island	68.9	59.3	74.9	75.1	101.8	110.1	120.3	140.7	149.9	182.5	242.1
South Carolina	26.3	23.7	28.8	24.6	30.8	67.2	118.3	114.3	87.5	96.1	98.7
South Dakota	8.1	10.7	12.4	6.8	7.3	8.5	9.1	10.2	9.9	10.2	19.0
Tennessee	187.1	209.5	241.7	289.4	388.2	546.3	644.3	644.1	722.9	883.6	702.3
Texas	653.0	651.0	652.2	714.5	837.2	819.4	1,003.8	1,000.1	908.6	1,031.7	1,054.3
Utah	58.9	66.7	68.7	80.1	101.5	133.2	161.8	211.6	243.9	305.7	287.9
Vermont	22.8	17.5	25.1	31.6	39.7	36.6	23.7	16.7	36.6	18.7	35.7
Virginia	529.6	567.9	642.3	726.8	751.5	780.2	857.1	945.1	1,059.3	1,086.4	1,268.1
Washington	537.9	567.9	650.4	694.6	705.6	879.1	878.3	864.7	951.8	1,047.5	1,038.9
West Virginia	29.4	28.2	25.9	46.5	37.2	50.6	73.3	107.2	152.0	151.2	91.0
Wisconsin	80.1	79.6	79.6	79.2	82.8	94.8	111.9	111.0	121.7	132.2	129.4
Wyoming	9.9	10.7	11.0	16.3	19.4	24.2	40.8	41.0	53.9	58.2	25.4
Outlying areas	18.4	19.7	19.6	28.8	22.4	47.8	38.7	39.4	45.3	38.9	40.7
Offices abroad	46.1	47.4	49.1	43.9	43.0	38.6	45.9	57.7	73.5	47.2	59.0

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year, and represent 97 percent or more of the total Federal R&D obligations in that year.

Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-162B. Federal obligations for research and development, by State: fiscal years 1983-91

[Dollars in millions]

State	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	37,627.8	41,148.5	47,214.8	50,310.2	54,067.4	55,471.0	59,485.0	62,105.2	59,865.4
Alabama	671.7	792.6	896.6	1,188.2	1,346.4	1,363.7	1,646.7	1,805.4	1,863.2
Alaska	40.4	47.7	51.5	49.4	48.8	50.5	71.3	90.7	102.7
Arizona	469.3	383.9	458.2	398.1	414.9	369.4	501.2	591.7	516.8
Arkansas	31.4	35.0	39.7	40.5	52.3	56.4	57.0	85.7	85.9
California	8,194.9	8,995.8	10,771.8	11,512.3	13,672.2	14,895.9	15,919.4	16,249.3	14,488.3
Colorado	436.2	531.6	629.2	1,636.4	1,516.3	1,408.4	1,618.1	1,888.3	2,694.2
Connecticut	743.3	675.9	742.8	577.3	672.2	619.5	596.7	509.8	672.7
Delaware	20.4	63.7	34.7	30.2	32.3	36.0	31.9	28.3	41.8
District of Columbia	1,196.1	1,796.0	2,077.7	2,324.0	2,209.2	2,925.3	1,914.9	1,593.1	1,943.7
Florida	1,276.0	1,138.1	1,205.2	1,448.0	2,297.3	2,133.4	2,269.8	2,343.4	2,181.1
Georgia	237.2	245.5	291.8	250.5	352.1	350.4	392.5	364.1	466.5
Hawaii	71.4	52.9	58.2	54.7	63.9	82.2	97.4	100.0	112.6
Idaho	223.4	195.2	259.7	266.6	232.7	250.1	195.9	326.1	279.1
Illinois	567.5	675.6	772.8	745.0	827.3	850.7	909.1	957.2	959.4
Indiana	213.6	236.0	227.7	295.1	339.4	312.1	392.5	363.6	378.7
Iowa	95.2	134.5	150.3	224.3	162.4	197.1	190.9	186.7	209.8
Kansas	97.4	101.9	138.1	112.7	94.2	126.7	128.8	116.4	83.6
Kentucky	93.1	56.5	69.2	59.1	61.9	68.5	73.0	96.5	122.4
Louisiana	186.6	129.7	118.8	92.4	107.4	101.3	179.6	121.2	163.6
Maine	29.3	38.1	36.7	35.6	178.6	39.8	67.7	39.7	57.1
Maryland	3,412.4	3,917.9	4,371.6	4,512.5	4,036.3	4,355.3	4,849.0	5,332.1	5,569.0
Massachusetts	2,559.3	2,882.6	3,276.7	3,240.3	3,910.8	2,702.0	2,882.5	2,982.8	3,146.8
Michigan	412.5	479.4	502.1	460.5	463.3	417.5	686.2	810.8	772.6
Minnesota	448.2	636.8	716.7	515.4	506.6	576.8	597.3	529.8	455.7
Mississippi	185.8	145.5	172.4	143.4	184.4	185.1	198.7	471.7	230.6
Missouri	576.8	659.5	694.2	677.8	614.7	637.6	1,241.9	1,064.3	587.9
Montana	35.0	26.6	26.0	26.4	30.1	35.5	36.2	30.9	45.8
Nebraska	42.3	33.0	34.6	41.1	48.9	52.1	51.2	76.4	76.1
Nevada	647.1	440.5	490.4	462.6	462.0	443.3	427.5	484.7	496.0
New Hampshire	76.8	116.4	130.3	136.0	83.6	60.8	98.0	145.1	196.3
New Jersey	1,293.4	1,550.0	1,791.8	1,781.4	1,114.9	1,209.3	1,320.4	1,601.6	1,698.3
New Mexico	1,804.9	2,104.8	2,368.6	2,500.0	1,998.2	2,296.1	2,220.4	2,311.3	2,018.7
New York	2,523.2	2,493.4	3,128.4	3,163.5	2,941.8	2,688.7	2,904.1	2,960.8	3,086.6
North Carolina	312.5	378.3	485.7	497.7	583.8	625.0	562.8	618.6	673.8
North Dakota	27.2	37.8	32.7	27.2	29.4	32.5	33.3	53.1	43.7
Ohio	1,170.1	1,366.5	1,520.5	1,591.7	1,862.9	1,865.2	1,938.8	2,088.5	1,729.9
Oklahoma	67.9	65.5	81.3	69.8	99.4	103.7	117.6	162.6	131.5
Oregon	108.0	137.8	151.6	127.6	133.9	170.3	168.4	175.6	216.5
Pennsylvania	1,173.3	1,142.2	1,329.6	1,301.3	1,681.9	1,731.6	1,961.9	2,074.6	2,125.8
Rhode Island	267.5	306.1	334.3	392.7	365.4	335.6	314.1	391.1	433.8
South Carolina	104.6	119.8	119.9	122.5	123.7	148.7	222.6	230.9	250.4
South Dakota	12.4	14.0	14.4	14.6	12.8	13.1	15.0	15.7	22.5
Tennessee	435.5	546.7	556.3	591.3	732.0	567.2	576.0	825.0	732.2
Texas	1,412.6	1,473.8	1,664.6	1,912.0	2,261.3	2,514.9	3,189.2	3,496.8	2,321.4
Utah	268.9	232.4	250.9	274.6	427.3	462.0	517.8	437.7	429.1
Vermont	23.7	33.8	36.1	41.1	39.6	55.9	60.1	42.5	56.1
Virginia	2,286.1	2,247.2	2,472.4	2,810.0	2,292.5	2,729.1	2,778.0	2,733.5	2,909.0
Washington	709.3	881.8	1,036.5	1,153.9	1,878.8	1,765.6	1,766.2	1,567.0	1,241.1
West Virginia	82.5	73.3	66.5	88.7	115.8	113.4	104.0	116.6	177.9
Wisconsin	142.4	166.0	200.8	181.9	204.8	223.2	263.5	271.7	294.5
Wyoming	28.4	34.0	25.1	14.5	23.5	29.0	38.5	57.4	29.8
Outlying areas	32.0	44.9	62.8	36.8	42.9	33.0	45.7	54.9	221.7
Offices abroad	51.0	34.6	35.9	59.2	78.2	54.2	43.4	31.7	21.0

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year, and represent 97 percent or more of the total Federal R&D obligations in that year.

Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-163A. Federal obligations for R&D plant, by State: fiscal years 1972-82

[Dollars in millions]

State	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	595.6	757.5	749.8	801.0	799.2	1,334.0	1,262.0	1,393.8	1,533.1	1,454.4	1,380.1
Alabama	6.7	5.1	5.6	8.4	12.3	5.3	6.5	2.6	47.9	16.5	5.8
Alaska	.7	.5	.1	.9	.8	.6	.7	.8	.1	-	-
Arizona	2.3	.5	3.6	1.3	2.7	1.6	33.9	35.3	1.8	.4	.4
Arkansas	.1	.2	.4	.7	.9	2.8	.9	.2	.7	.7	1.0
California	123.4	128.0	141.1	151.1	147.3	303.3	259.5	400.2	377.4	355.4	334.6
Colorado	16.2	21.9	7.9	4.9	12.0	12.7	11.6	9.7	35.6	26.9	16.6
Connecticut	2.7	2.4	5.2	3.8	1.9	3.9	2.3	12.3	1.0	9.2	25.1
Delaware	-	-	.1	.1	.0	-	-	.0	.7	1.6	.1
District of Columbia	9.0	31.5	1.1	7.9	21.4	11.3	11.1	22.0	14.3	31.7	33.6
Florida	47.7	40.1	51.7	96.0	76.3	155.2	81.1	46.0	46.7	25.5	31.8
Georgia	1.8	.7	.1	.5	.2	1.2	1.8	1.0	.6	1.6	1.5
Hawaii	.9	.4	.4	6.2	2.8	.5	.7	.5	.2	.7	.1
Idaho	5.4	6.3	11.0	16.2	19.7	26.1	35.6	41.8	45.1	11.9	21.4
Illinois	68.1	84.3	42.9	29.6	45.2	52.0	72.9	61.9	71.5	74.1	74.3
Indiana	.5	.3	.1	.1	.8	.6	.4	.7	.7	.9	.6
Iowa	.8	1.1	.5	.7	1.1	1.5	2.3	2.2	2.9	2.1	2.2
Kansas	.1	.2	.1	-	.1	.1	.2	-	.1	.1	.1
Kentucky	.1	-	.2	.0	.0	.0	-	2.9	-	4.3	1.4
Louisiana	.5	.4	1.6	.3	2.3	3.6	20.9	16.7	12.6	14.1	22.2
Maine	.4	-	.2	-	-	.1	.1	.1	-	-	-
Maryland	36.1	51.4	60.8	40.1	36.7	80.4	82.7	64.3	53.3	52.3	82.2
Massachusetts	16.1	8.4	9.5	11.0	14.0	24.4	28.7	36.9	20.4	35.7	23.3
Michigan	2.9	4.8	.2	.6	2.0	1.1	1.9	3.0	8.3	9.5	7.8
Minnesota	1.3	.5	23.4	.1	.5	.4	1.2	.8	.3	.5	.4
Mississippi	.4	13.0	15.2	4.8	4.1	11.5	6.0	3.8	6.6	3.4	5.9
Missouri	.7	.3	.8	4.1	.5	.9	1.2	5.6	40.9	1.8	5.7
Montana	.1	.1	.1	.3	.1	.8	-	1.2	3.7	.1	.1
Nebraska	1.6	1.0	1.5	.4	1.0	.2	.3	.8	2.1	.6	.7
Nevada	17.5	14.4	9.2	11.7	11.7	14.8	18.5	24.2	22.4	82.9	30.0
New Hampshire	1.5	.4	1.1	2.9	2.0	2.4	1.3	5.4	-	7.7	.1
New Jersey	14.9	5.3	2.5	11.5	22.1	64.8	96.7	64.8	60.5	55.7	57.0
New Mexico	41.6	51.6	50.3	68.1	76.6	137.9	101.7	138.6	169.5	119.3	196.6
New York	21.9	81.8	77.1	46.4	37.5	61.0	63.8	69.4	91.4	85.1	65.0
North Carolina	6.0	4.8	4.1	.3	.6	66.8	3.5	3.9	8.2	1.2	1.4
North Dakota	.5	.1	.2	.4	.5	.6	2.3	1.4	4.1	1.4	1.2
Ohio	13.0	39.1	19.6	15.1	13.6	60.4	23.9	28.0	40.3	65.2	23.7
Oklahoma	.2	.1	.1	.3	.2	.4	1.0	.6	3.2	2.7	1.2
Oregon	1.2	.1	.1	1.2	2.0	-	2.6	.9	3.9	1.0	.1
Pennsylvania	37.3	12.6	21.8	18.9	11.0	8.1	28.8	46.5	35.5	95.2	51.1
Rhode Island	2.8	4.2	.7	4.9	4.5	5.3	2.4	3.5	2.6	1.6	2.1
South Carolina	1.2	3.4	7.7	3.8	3.3	2.2	6.9	9.7	3.1	18.8	65.2
South Dakota	3.1	1.5	.4	.0	.0	-	.1	1.6	3.1	.7	.9
Tennessee	20.5	37.4	33.6	39.3	60.5	37.8	43.4	55.8	80.1	85.5	65.2
Texas	10.4	11.1	6.1	7.6	7.8	10.4	11.8	9.7	14.2	13.9	10.2
Utah	1.0	.5	4.1	2.1	.8	1.5	8.0	2.9	1.9	1.5	3.1
Vermont	1.1	.1	1.0	.0	.0	.0	.0	-	.0	-	.0
Virginia	11.3	7.0	14.0	23.1	11.6	24.7	29.3	42.0	41.5	33.9	21.1
Washington	30.2	47.8	102.1	146.5	103.1	113.4	118.3	86.8	128.2	89.0	80.8
West Virginia	.9	4.2	.8	1.9	16.7	16.7	17.0	13.1	12.9	3.7	1.1
Wisconsin	1.0	1.1	6.9	2.9	4.9	.5	9.6	2.9	2.5	3.0	1.0
Wyoming	-	.2	-	.3	.2	.3	.9	1.2	4.3	2.0	1.2
Outlying areas	1.8	1.4	.6	.5	.3	.1	1.7	.5	2.9	.7	.5
Offices abroad	8.2	24.1	.2	1.1	1.0	1.9	3.9	7.1	1.1	1.3	1.4

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year, and represent 97 percent or more of the total Federal R&D obligations in that year.

Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

Because of rounding, detail may not add to totals.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1991, 1992, and 1993

Table C-163B. Federal obligations for R&D plant, by State: fiscal years 1983-91

[Dollars in millions]

State	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	1,280.9	1,770.6	1,774.7	1,482.5	2,066.5	2,025.1	2,144.3	2,230.1	3,634.5
Alabama	6.0	26.4	41.4	41.2	61.4	51.8	47.2	109.7	165.0
Alaska	21.3	.1	12.9	.0	.0	6.4	.0	11.1	.2
Arizona	5.4	3.6	2.9	1.7	19.6	21.8	18.1	2.5	16.4
Arkansas	1.5	.5	.5	.9	.5	.4	3.1	2.2	5.3
California	368.4	316.8	404.2	323.5	315.3	429.0	446.7	459.0	632.2
Colorado	43.9	52.3	32.4	16.3	16.4	53.5	62.5	32.3	50.7
Connecticut	5.5	5.2	8.4	1.2	.4	1.0	1.4	1.8	2.6
Delaware	.4	.6	.4	.4	.4	1.3	.2	-	-
District of Columbia	24.6	62.4	92.5	28.0	24.3	15.4	17.1	7.4	16.1
Florida	37.2	91.2	42.8	53.2	97.4	86.0	100.0	68.3	479.8
Georgia	2.1	3.8	2.6	15.6	23.1	2.7	10.8	3.6	103.9
Hawaii	1.6	.6	.9	.6	.6	6.9	.4	1.4	9.2
Idaho	19.7	11.9	8.3	24.7	17.8	39.6	12.0	30.3	46.0
Illinois	80.3	81.2	110.1	96.6	94.3	76.7	94.9	116.3	319.7
Indiana	1.3	2.8	4.5	.5	5.8	1.9	1.5	1.3	5.0
Iowa	2.7	3.5	1.4	3.3	22.7	3.8	6.2	10.4	26.1
Kansas	.2	.3	2.3	41.0	49.8	.1	1.6	3.1	5.2
Kentucky	.4	.3	.3	.3	1.7	.1	.5	.7	1.6
Louisiana	2.4	2.6	2.0	2.2	3.3	31.9	47.2	33.6	26.1
Maine	-	-	-	-	-	.3	.1	.7	.7
Maryland	80.8	180.1	145.4	78.6	141.4	79.2	120.1	178.9	246.2
Massachusetts	29.4	62.8	66.1	17.7	37.0	94.2	54.7	78.2	29.0
Michigan	1.1	6.4	5.1	1.2	1.4	4.4	4.6	6.6	3.0
Minnesota	.8	3.1	.8	1.1	.4	.7	1.8	1.1	2.1
Mississippi	6.4	13.7	12.6	13.5	57.9	19.1	41.1	47.4	50.8
Missouri	6.0	3.9	3.7	4.7	7.4	2.7	3.7	1.9	6.5
Montana	.2	.2	.2	.2	.2	.2	.2	.5	1.6
Nebraska	.5	.7	.4	7.3	1.4	4.1	2.8	4.1	6.0
Nevada	33.0	108.4	155.2	69.9	87.0	103.3	69.3	61.1	57.7
New Hampshire	.7	.1	.4	.3	.2	-	.2	.3	.3
New Jersey	42.0	52.7	40.1	37.6	39.8	52.6	46.8	51.3	29.8
New Mexico	191.8	102.3	243.7	192.0	288.8	231.4	239.6	197.9	173.3
New York	77.0	175.0	75.3	105.0	114.1	115.3	101.6	100.6	107.2
North Carolina	4.1	3.6	10.4	2.2	3.4	.9	4.3	3.4	7.4
North Dakota	.9	.9	1.3	8.8	.8	9.2	6.0	7.4	9.0
Ohio	7.5	49.6	46.5	19.2	92.0	68.5	69.8	56.3	267.7
Oklahoma	1.3	.9	1.7	2.3	.9	10.7	4.5	1.5	3.3
Oregon	.2	3.4	1.2	12.0	24.9	8.6	30.1	12.3	3.3
Pennsylvania	19.2	20.1	18.7	19.0	41.7	56.3	79.0	36.0	89.5
Rhode Island	1.9	.7	31.6	5.5	6.4	2.0	1.6	.8	14.3
South Carolina	49.6	146.4	7.5	5.7	19.6	8.2	8.9	3.7	31.9
South Dakota	.2	.1	.1	-	.1	.6	.3	1.7	2.0
Tennessee	27.3	69.9	33.8	30.8	29.4	57.2	58.8	62.4	58.9
Texas	4.7	9.6	19.4	79.7	93.8	40.7	97.6	210.6	199.8
Utah	.5	2.0	2.4	13.6	14.2	6.8	12.1	2.5	3.5
Vermont	.0	.0	.0	.0	1.0	8.0	1.4	[illegible]	.8
Virginia	29.4	52.2	26.7	45.5	138.9	105.5	127.4	[illegible]	169.1
Washington	12.0	13.6	32.7	26.4	26.6	31.2	35.5	44.2	34.5
West Virginia	23.3	4.8	11.4	10.2	16.5	23.2	26.7	12.4	89.4
Wisconsin	1.9	10.2	5.6	2.7	4.0	2.0	4.0	4.4	13.0
Wyoming	.1	.3	.1	.1	.3	.2	.1	.2	.7
Outlying areas	.2	3.3	1.4	13.9	18.2	46.5	1.5	14.9	11.0
Offices abroad	1.7	3.5	2.3	4.5	2.0	.9	16.8	.3	.5

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year, and represent 97 percent or more of the total Federal R&D obligations in that year.

Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

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